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Shared genetic variants suggest common pathways in allergy and autoimmune diseases

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Genetic variants associated with allergy in a meta-GWAS of 62,330 individuals

Genetic variants associated with 112 diseases and traits from the GWAS catalog

Pathway enrichment analysis of associated variants

Common pathways projected onto two dimensions (PCA)

Other traits

Allergy-related and autoimmune traits

Allergy

Second principal component (7%)

First principal component (11%)

ACCEPTED

ACCEPTED

Shared genetic variants suggest common pathways in allergy and autoimmune diseases

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Abstract

Background

The relationship between allergy and autoimmune disorders is complex and poorly understood.

Objective

To investigate commonalities in genetic loci and pathways between allergy and autoimmune diseases to elucidate shared disease mechanisms.

Methods

We meta-analyzed two GWAS on self-reported allergy and sensitization comprising a total of 62,330 individuals. These results were used to calculate enrichment for SNPs previously associated with autoimmune diseases. Furthermore, we probed for enrichment within genetic pathways and of transcription factor binding sites, and characterized commonalities in the variant burden on tissue-specific regulatory sites by calculating the enrichment of allergy SNPs falling in gene regulatory regions in various cells using Encode Roadmap DHS data, and compared the allergy data with all known diseases.

Results

Among 290 loci previously associated with 16 autoimmune diseases, we found a significant enrichment of loci also associated with allergy ($p=1.4e-17$) encompassing 29 loci at a false discovery rate <0.05 . Such enrichment seemed to be a general characteristic for all

autoimmune diseases. Among the common loci, 48% had the same direction of effect for allergy and autoimmune diseases. Additionally, we observed an enrichment of allergy SNPs falling within immune pathways and regions of chromatin accessible in immune cells that was also represented in autoimmune diseases, but not in other diseases.

Conclusion

We identified shared susceptibility loci and commonalities in pathways between allergy and autoimmune diseases, suggesting shared diseases mechanisms. Further studies of these shared genetic mechanisms might help understanding the complex relationship between these diseases, including the parallel increase in disease prevalence.

Capsule Summary

We identified shared susceptibility loci and commonalities in pathways between allergy and autoimmune diseases. Further studies of these loci and related mechanisms might help understanding the complex relationship between allergy and autoimmunity.

Key messages

- Allergy and autoimmune diseases share genetic susceptibility loci.
- These results indicate commonalities in gene regulation and genetic pathways between allergy and autoimmune diseases.
- Further studies of common genetic loci and the related mechanisms might help understanding the complex relationship between allergy and autoimmunity.

Key words

Allergy, Single Nucleotide Polymorphism, Autoimmune Disease, Autoimmunity, Genetic Association Studies

Abbreviations

DEPICT: Data-driven Expression Prioritized Integration for Complex Traits gene set enrichment method

- 123 DHS: DNase Hypersensitive Sites
- 124 GWA(S): Genome Wide Association (Studies)
- 125 PCA: Principal Component Analysis
- 126 SNP: Single Nucleotide Polymorphism
- 127

Introduction

There has been a parallel increase in allergic and autoimmune disorders in recent decades in “westernized” countries¹ suggesting that these diseases may share disease mechanisms and etiologies. In line with this, allergy and autoimmune disorders seem to share environmental risk factors including birth by caesarian section². This observation is in apparent contrast to the understanding of allergy and autoimmune diseases as representatives of distinct immunological disorders with counteracting underlying immune mechanisms. Autoimmune diseases are in general thought to act through a Th1/Th17-driven cell mediated immune response,³ while allergy and asthma encompass a Th2-mediated response⁴. Counteracting immune mechanisms have been supported by some epidemiological studies of comorbidity suggesting a lower incidence of allergy among patients with autoimmune diseases, including rheumatoid arthritis^{5,6} and multiples sclerosis⁷, although the evidence of such inverse relationship is conflicting.⁸

Both allergy and autoimmune diseases are highly heritable diseases and an increasing number of susceptibility loci have been discovered.^{9–11} We hypothesized that studying commonalities in the genetic architecture could provide a key to understanding the complex relationship between these diseases by pinpointing possible common disease mechanisms. In a wider perspective, this might help to explain the mechanisms and aetiologies responsible for the contemporaneous, dramatic increase in incidence of allergic and autoimmune disorders¹.

We studied commonalities between allergy and autoimmune disease in terms of susceptibility loci, genetic pathways and regulatory mechanisms. We meta-analyzed two

GWAS on allergic sensitization and allergic symptoms representing the largest GWAS on allergy to date. These data were then combined with publically available GWAS data on autoimmune diseases, as well as public data on molecular pathways, transcription factor binding sites and regulatory DNA regions. The primary analyses used a methodological approach that was agnostic to the direction of effect (including loci where the risk-allele was the same for allergy and autoimmune disease as well as loci where the risk allele for one disease was protective for the other). We hypothesized that loci with same direction of effect for different diseases might be involved in shared mechanisms and thereby help understanding the parallel epidemics of diseases, while loci with opposite direction of effect might help understanding counteracting (diverging) disease mechanisms. In analogue, gene variants in beta-adrenoreceptors are likely to show diverging effects with respect to risk of cardiac and respiratory diseases but still pinpoint an essential mechanism for both diseases. For allergy and autoimmune diseases such loci might be involved in “polarization” of the immune response. We therefore chose an approach that would capture common genetic loci with both same and opposite direction of effect since we believe that both might confer important information and thereby help to elucidate the complex mechanistic relationship between these diseases.

Methods

Study group

To obtain the largest possible GWAS data set for allergy, we meta-analyzed results from two recent GWAS on self-reported allergy⁹ and sensitization¹⁰, including ~2.2 million directly genotyped and imputed single nucleotide polymorphisms (SNPs), using a fixed effects model. The self-reported allergy dataset comprised 23,335 individuals with self-reported allergy for cat-, dust-mite and/or pollen-allergy and 26,311 control subjects without symptoms. The allergic sensitization dataset included 5,809 subjects with allergic sensitization defined by either skin prick test or specific IgE measurement and 9,875 control subjects without allergic sensitization with data from the following cohorts: AAGC, ALSPAC, B58C, COPSAC2000, LISA, MAAS, NFBC 1966, RAINE and PIAMA (**Supplementary Methods**).

Common genetic loci

To identify common genetic loci, we identified all SNPs previously shown to be associated with autoimmune diseases from the NHGRI GWAS catalog¹². From each locus defined by genetic distance (**Supplementary Methods**) the most significant SNP associated with autoimmune diseases (the index disease, one of 16 different diseases) was chosen, leaving 290 candidate SNPs which were subsequently extracted from the allergy meta-analysis results (**Supplementary Methods, Supplementary Table 1 and Supplementary Figure 1**). For each SNP, the direction of effect of the risk allele for allergy was compared with the direction of effect for the index autoimmune disease as well as for other autoimmune diseases with reported loci in high LD.

Among these autoimmune disease-associated SNPs (loci) we calculated an enrichment of significant SNPs in relation to allergy ($P < 0.05$) as compared to expected under the null hypothesis. Enrichment was only calculated for diseases with at least ten loci associated with the index disease and therefore not calculated for systemic sclerosis, sarcoidosis, primary sclerosing cholangitis and myasthenia gravis. As a methodological negative control, SNPs related to two non-inflammatory phenotypes with reasonable GWA study sizes, migraine and the combination of bipolar disorder and schizophrenia from the GWAS catalog, were analyzed similarly.

Commonalities in genetic pathways

To investigate commonalities in functional origins, the Data-driven Expression Prioritized Integration for Complex Traits (DEPICT) gene set enrichment method¹³ was applied to 123 diseases and traits in the GWAS catalog, as well as the current association data set on allergy, by analyzing gene set enrichments for 14,416 reconstituted gene sets capturing a wide spectrum of molecular pathways, functional annotations and mouse phenotypes. For visualization purposes the resulting enrichment matrix was reduced to fewer dimensions by principal component analysis (**Figure 1, Supplementary Methods**). Similarly, this approach was applied to the common loci between allergy and autoimmune diseases (**Figure 2**), and to allergy and Crohn's disease separately to identify common and disease specific networks (**Figure 3, Supplementary Methods**). Crohn's disease was used as a representative of autoimmune diseases as this represents the largest, with respect to sample size, public available GWAS dataset to date of an autoimmune disease¹⁴. Also, we consider this a good

representative of autoimmune diseases since it is considered to be Th1 driven immune like most autoimmune diseases.

The enrichment of transcription factor (TF) binding sites in loci common between allergy and autoimmune diseases was calculated using ENCODE data by assessing the overlap between loci and binding sites for 161 TFs compared to random expectations (**Supplementary**

Methods).

Common disease-implicated cell types

To identify and visualize common disease-implicated cell types, the tendency of disease associated loci to fall in cell-type specific regulatory DNase Hypersensitive Sites (DHS) (a proxy for accessible and/or regulatory DNA) was calculated for all diseases in the GWAS catalog, as well as allergy based upon the current association data-set. This enrichment was computed for 168 cell types and cell lines (hereafter described as cells) from the ENCODE Roadmap repository¹⁵. Duplicates and directly redundant cell types were removed before analyses. As with pathway enrichments, the resulting enrichment matrix was reduced to fewer dimensions by PCA for visualization (**Supplementary Methods**). For allergy this was also compared for the full range of p-values within the allergy meta-analysis in bins of decreasing p-value thresholds, essentially as done by Maurano and colleagues¹⁶. This was similarly done for Crohn's disease for comparison¹⁴ using data from a GWAS metanalysis¹⁴ including data from 6 studies of European descent with in total 6,333 cases and 15,056 controls in the discovery imputed with Hapmap III or II with in total of 953,242 autosomal SNPs. To validate specific findings, the DHS enrichment was re-calculated for enhancer regions in data from the more conservative FANTOM5 set¹⁷.

Results

Allergy meta-analysis

By use of the joint meta-analysis on combined data from allergic sensitization and self-reported allergy we increased the number of allergy-associated SNPs compared to the previous GWAS (**Supplementary Figure 2**) resulting in a total number of 19 genome-wide significant loci (**Supplementary Figure 3**). One of these; rs11122898 near *ANAPC1/MERKT* ($p=1.9e-8$) has not previously been associated with allergy or any related trait. In addition there were 5 novel suggestive loci ($p<e-5$): rs7612543 near *ZBTB38* ($p=1.0e-7$); rs9790601 near *NFKB1* ($P=7.4e-8$); rs7072398 near *IL2RA* ($p=5.2e-7$); rs12365699 near *CXCR5* ($p=6.5e-7$) and rs12900122 near *RORA* ($p=3.5e-7$) (**Supplementary Figure 4 and Supplementary Table 2**). Notably, all of these suggestive loci have previously been described in relation to autoimmune disorders^{11,18–30}.

Commonalities in genetic loci, pathways and disease implicated cell types between allergy and autoimmune diseases

There was a significant enrichment of autoimmune-associated loci with low p-values among the allergy loci from the current meta-analysis compared with expected (enrichment $OR=4.36$ [3.2-5.9], $p=1.4e-17$) (**Figure 1A, Table 1 and supplementary table 3**). A similar enrichment was seen for the two allergy phenotypes separately (self reported allergy: $OR=4.1$ [3.0-5.5] $p=1.1e-15$, and allergic sensitization: $OR=2.7$ [1.6-4.0] $p=1.8e-5$) (**Supplementary Figure 5**). This enrichment was also seen for the individual autoimmune diseases (**Figure 1A and Supplementary Figure 6**), although not statistically significant for

Systemic Lupus Erythematosus and Ankylosing Spondylitis and for Psoriasis and Graves Disease after adjusting for multiple testing (**Table 1**). We a priori chose a P-value threshold for the calculations of enrichment of <0.05 . Using lower thresholds ($P < 0.01$ or 0.001) generally resulted in higher enrichment and significant enrichment for all autoimmune diseases.

As a methodological negative control, SNPs related to two non-inflammatory phenotypes with a large number of known genome-wide significant loci, migraine and the combination of bipolar disorder and schizophrenia from the GWAS catalog were extracted from the allergy meta-analysis. These showed no significant overlap with allergy loci (**Supplementary Figures 7 and 8**).

Using DEPICT to identify significantly enriched reconstituted gene sets for allergy (**Supplementary Table 4**) and all diseases in the GWAS catalog, we identified a strong separation of autoimmune diseases, allergy and asthma from other traits on the first PCA component (Wilcoxon rank sum test $p_{PC1}=8.142e-08$, Wilcoxon rank sum test) (**Figure 1B and Supplementary Figures 9 and 10**). Notably, no other disease groups seemed to cluster strongly together (**Supplementary Figures 9 and 10**).

Analysis of all published SNP-to-trait associations and the tendency of these SNPs to fall within regions of open chromatin (represented by DHS) in specific cell types³¹ likewise revealed that autoimmune diseases, allergy and asthma clustered together, and differentiated from other non-immune diseases on the first two PCA components (**Supplementary Figures 11 and 12**, $p_{PC1}=0.0035$, $p_{PC2}=3.856e-07$, Wilcoxon rank sum test).

Loadings indicated that immune cells are responsible for this partitioning (**Supplementary**

Figure 13). Hierarchical clustering of the DHS sites within immune cells similarly showed the tendency of co-clustering of autoimmune diseases with allergy and asthma (**Supplementary Figure 14**). Specific DHS-analyses of allergy and Crohn's disease showed similar enrichment in variants falling within DHS regions of immune cells (**Supplementary Figure 15**). For allergy, these findings were validated in the FANTOM5 high confidence enhancer data set, which showed comparable enrichment among immune cells (**Supplementary Figure 16**)"

The specific common genetic loci

Out of the 290 autoimmune disease SNPs investigated, 29 were significantly associated with allergy at a FDR <0.05 (**Table 2**). Eleven of these common loci (*C11ORF30*, *LPP*, *PLCL1*, *HLA-B*, *SMAD3*, *IKZF3*, *MYC*, *CLEC16A*, *NDFIP1*, *BACH2* and *IL2RA/IL15RA*) were already reported to be associated with allergy^{9,10,32,33} (**Table 2 and Supplementary Table 5 and 6**). The remaining 18 overlapping loci included the mapped genes: *NFKB1*, *SH2B3*, *AKAP11/TNFSF11*, *ABO*, *C12ORF30*, *CD247*, *RADSNB*, *EP300*, *RORC*, *PSMG1*, *HDAC7/VDR*, *HLA-DPB2*, *BACH2*, *TNFAIP3*, *KIF1B*, *RPS6KA4*, *ERBB3*, *THADA*, and *GLB1/CCR4*. Look up of the 29 common loci in the separate results from the 2 different allergy-phenotypes (allergic symptoms and allergic sensitization) generally showed similar results, including same direction of effect for the two allergy-phenotypes for 28 out of 29 loci (**Supplementary Table 5**). For the majority of loci the effect size was higher for allergic sensitization compared to allergic symptoms, as would be expected due to the more homogenous phenotype, and for the majority of loci with evidence of heterogeneity between phenotypes, heterogeneity was due to this. The *NDFIP1* locus seemed only to be associated with self reported allergy.

Comparison of the direction of effect between allergy and autoimmune disease was possible for 27 of the 29 common loci compared with the index autoimmune disease. For 13 of these (48%), we found the same direction of effect meaning that the allele increasing the risk of allergy also increases the risk of the autoimmune disease (**Table 2**). For the remaining 14 loci (52%), we found opposite direction of effect with the risk allele for allergy being associated with reduced risk of the index autoimmune disease (**Table 2 and Supplementary Table 5**). The majority of autoimmune diseases showed examples of both same and opposite direction of effect compared to allergy. For some of the common loci where several autoimmune diseases have reported association, the different autoimmune diseases showed differences in direction of effect relative to allergy (*HLA-B*, *BACH2* and *RPS6KA4*). After gene set enrichment analyses of these 29 common loci, the resulting significant hits were all ontological terms relating to immune function, including immunoglobulin diversification and production, T-and B-cell activation, signaling by nuclear receptors and abnormal immune cell physiology. (**Figure 2, Supplementary Figure 17 and Supplementary Table 7**). Coloring for loci with same vs. opposite direction of effect for allergy and autoimmune diseases showed no clear systematic differences (Figure 2). To investigate the potential enrichment for certain transcription factors in mediating the effect at common loci, public transcription factor binding data from ENCODE were analyzed for overlap within loci common between allergy and autoimmune diseases. This revealed significant enrichment for several immune related transcription factors (**Supplementary Figure 18**).

In order to investigate if the common loci seem to tag the same genetic variant, we performed regional association plots showing that, for almost all loci, the autoimmune disease tagging SNP is also within the LD-block with strongest regional association with allergy (**Supplementary Figure 19**). Tagging of the same genetic variation at common loci was further supported by paired comparison of regional association plots for Crohn's disease¹⁴ and allergy, respectively, for the most statistically significant common loci (**Supplementary Figure 20**).

Shared and differential genetic pathways for Allergy and Crohn's disease

A direct comparison of pathways targeted by allergy-related loci vs. Crohn's disease loci revealed that a large proportion of shared as well as disease-specific pathways, with a strong predominance of T cell signaling modules within the shared grouping (**Figure 3**).

Discussion

Our study demonstrated substantial commonalities between allergy and autoimmune diseases in terms of susceptibility loci, genetic pathways and genomic regulatory sites (DHS). This overlap in genetic mechanisms seemed to be a general phenomenon for allergy autoimmune diseases and distinct from other diseases. Our study identifies a substantial number of novel overlapping loci for allergy and autoimmune diseases suggesting both shared (increasing risk of both autoimmune and allergic disease) as well as diverging genetic mechanisms.

Strengths and limitations

By combining two GWAS on allergic sensitization and allergic symptoms respectively, we were able to obtain the most powerful GWAS dataset on allergy to date, which allowed a systematic analysis of the genetic commonalities of allergy and autoimmune diseases. The clinical phenotypes are not identical, with allergic sensitization often being present without symptoms and vice versa, which can also be seen as a limitation of the study. However, the phenotypes are closely correlated genetically as suggested from the initial publications of the individual GWAS' showing highly consistent mutual replication of top-SNPs between studies^{9,10}. The improved number of significant SNPs and a higher number of genome-wide significant loci in the combined meta-analysis performed here compared with the individual GWAS results also underscores the validity of the combined meta-analysis approach. Furthermore, the common loci between allergy and autoimmunity generally showed similar results for the two allergy-related phenotypes (**Supplementary Table 5**), and

the enrichment of autoimmune loci was also similar for both phenotypes (**Supplementary Figure 5**), strongly suggesting that the conclusions of this study is not affected by the combination of allergy-related phenotypes.

In the primary analyses we combined GWAS loci from several autoimmune diseases. This was done in order to assess commonalities between allergy and autoimmune diseases in general and to obtain enough autoimmune loci and thereby statistical power to perform more systematic analyses. However, it should be noted that autoimmune diseases represent a heterogenous group of diseases, and the genetic architecture of autoimmune genes seem to include shared, but also differential and opposing genetic mechanisms³⁴⁻³⁶. We therefore also performed separate enrichment analyses for the different autoimmune diseases showing that enrichment for allergy-related loci seem to be the case for the majority of autoimmune diseases (**Supplementary table 8**).

It is a limitation that we did not have access to GWAS data for all autoimmune diseases. For the regional analyses of shared loci, a publicly available GWAS dataset on Crohn's disease was therefore used as a representative of autoimmune disease. It is a limitation of the analyses based on GWAS-catalog markers, that genotype chips and imputation panels and procedures differ between studies, adding marker coverage heterogeneity.

Our study is also limited by differences in study size of GWAS on autoimmune diseases, meaning that the diseases where the largest GWAS have been performed, and most loci have been discovered, will have a relatively larger impact on the results of the analysis combining all autoimmune diseases. The number of reported loci for each autoimmune disease is shown in Table 1.

Interpretation

We found substantial overlap of susceptibility loci for allergy and autoimmune diseases suggesting commonalities in the genetic background and hence the possibility of shared pathogenetic mechanisms. The possible common etiology of allergy and autoimmune diseases was further supported by co-clustering of autoimmune diseases, asthma and allergy in terms of genetic pathways and regulatory sites implying shared disease pathways beyond overlap of associated SNPs.

To our knowledge, no previous study has had sufficient statistical power to systematically explore commonalities in the genetic architecture between allergy and autoimmunity. One previous study found no association between susceptibility loci for type 1 diabetes and total IgE levels³⁷ arguing against a shared genetic background. However, that study had much lower statistical power than the present study, and the genetics of total IgE has been shown to be different from the genetics of allergen-specific IgE¹⁰. Another study compared results from a GWAS on asthma with published GWAS results on autoimmune diseases and found evidence of 7 overlapping susceptibility loci, both showing examples of opposite and same direction of effect for asthma and autoimmune diseases³⁸.

Importantly, our study demonstrates common loci with both the same and opposite direction of effects, potentially pointing towards both converging (shared) and diverging (counteracting) mechanisms, either increasing the risk of both allergy and autoimmune diseases, or increasing the risk for one of the diseases while protecting against the other.

Our study thereby provides further understanding of the complex genetic relationship between allergy and autoimmune diseases. We hypothesize that the common loci with same

direction of effect may be involved in the mechanisms causing the contemporaneous epidemics of allergy and autoimmune diseases³⁹ by increasing the susceptibility to immune disorders in general, probably by mechanisms involving gene-environment interaction. Complementarily, common loci with opposite direction of effect may be involved in mechanisms determining the type of immune disorder developing in the individual, resulting in the inverse relationship observed between allergy and some autoimmune diseases⁵⁻⁷. Understanding the mechanisms of these common genetic loci may improve understanding of the epidemics of allergy and autoimmune diseases. It may also help predict how targeting specific disease mechanisms could have the unintended consequence of increasing the risk of other diseases. We expect the loci with *same direction of effect* to be of particular importance in the search for common mechanisms driving the parallel increases in disease incidence. Of specific interest are the loci at *C11orf30*, *PLCL1* and *SMAD3*, which were strongly associated with allergy as well as several autoimmune diseases. Of these, *C11orf30* and *SMAD3* were also identified in a previous study comparing asthma and autoimmune diseases³⁸. Some of the loci with same direction of effect were linked to immune-related transcription factors (*RORC*, *SMAD3*), transcriptional co-factors (*EP300*), cell-cycle regulators (*THADA*) or regulators of transcription (*C11ORF30*, *PLCL1*, *AKAP11*, *NDFIP1*). Several are directly implicated in regulation of regulatory T cells (Treg, *SMAD3*⁴⁰, *EP300*⁴¹) and Th17 cells (*RORC*⁴², *SMAD3*⁴⁰), or regulation of immune activity (*IL2RA*). This supports a commonality of autoimmune and allergic diseases based on defects in immune suppressive functions. Other loci with same direction of effect included *CLEC16A*, *TNFSF11*, *CCR4* and *GLB1*, all involved in immune function by different means.

Loci with *opposite direction of effect* might be involved in “polarization” of the immune response. Since allergy is acknowledged to involve Th2-mediated pathology, while most autoimmune diseases involve Th1 cells as well as pathogenic Th17 cells, any genetic factors that perturb Th differentiation ability or the immunosuppressive Treg function could potentially influence the risk of specific disease development. The loci with opposite direction of effect included *LPP*, *NFKB1*, *TNFAIP3*, all involved in immune cell signaling and activation/deactivation processes. Several of the other loci with opposite direction of effect function as possible regulators of immune cell differentiation (*HDAC7/VDR*^{43,44}, *IKZF3*⁴⁵, *SH2B3*, *BACH2*, *RPS6KA4 (MSK2)*⁴⁶) and cell-cycle regulation (*RAD51L1*), while the remaining loci (*C12ORF30*, *PSMG1*, *HLA-DPB2*, *KIF1B*) are more general regulators of cellular function. It should however be noted that given the complexity of genetic regulation and the fact that the causal genetic variant is unknown for most susceptibility loci, the finding of common genetic loci with apparent opposite direction of effect should be interpreted with caution. It is possible that this is the result of different underlying causal variants in the region, although comparison of regional association plots suggested that the association signals for allergy and autoimmune disease did tag the same genetic variation. Potential polarizing mechanisms associated with these loci should be addressed in future studies, e.g. by demonstrating opposite disease relationships on the level of gene expression and/or protein levels.

Gene set enrichment analyses of the 29 shared loci (**Figure 2, Supplementary Figure 17 and Supplementary Table 7**) indicate that immune functioning and activation status specifically within T cells represents a shared focal point for allergy and autoimmune diseases.

Involvement of shared immunological paths was further supported based on the type of transcription factors found to be enriched within the common loci where generic immune regulatory transcription factors including MTA3, WRNIP1 and IKZF1 (Ikaro) turned out as central players (**Supplementary Figure 18**). MTA3 has been shown to be involved in B-cell and T helper cell differentiation^{47,48} and WRNIP1 has been reported to regulate expression of transcription factors involved in Treg functioning⁴⁹. IKZF1 activates extensive transcriptional programs involving especially regulation of T, B and NK cells with effects on differentiation, proliferation and apoptotic programs in these cell types⁵⁰. Moreover, several other directly immune-related transcription factors were identified amongst the top 10 hits, including NFATC1, STAT2, MEF2C, RELA, SP2 and ZEB1^{51–56}.

The comparative pathway analysis between allergy and Crohn's disease highlights that the common pathways of these diseases are founded on (de)regulation of adaptive immune signaling, involving TCR, CD28, IL2/3/5/6, IFN γ , GM-CSF, JAK/STAT and IL receptor signaling as well as of apoptosis and IgA production. The Crohn's disease-specific network primarily included pathways associated with innate immune activation involving TLR and NOD signaling, while allergy-specific pathways were associated with signaling from receptor tyrosine kinases such as EGFR. (**Figure 3**)

A strong co-clustering and separation of allergy, asthma and autoimmune diseases in terms of enrichment of SNPs in cell type specific DHS sites, points towards common immune modulatory mechanisms facilitated by the effect of the genetic SNP burden in immune cell-specific regulatory regions (**Supplementary Figures 11 and 13**). For Allergy and Crohn's disease, these related primarily to T and B cell functions (**Supplementary Figure 15**). In

accordance with our findings of coinciding immune cell involvement in several immune-mediated diseases, one previous study on Multiple Sclerosis reported several genetic markers in relevant DHS sites in immune cells.⁵⁷ Accordingly and in line with our findings a recent paper focusing on autoimmune disease variants show how these immune mediated diseases are correlated and cluster in tendency for associated variants to be enriched in specifically immune cell enhancers.⁵⁸ Moreover, the enrichment of immune-cell specific DHS sites specifically within promoter regions (**Supplementary Methods, Supplementary Figure 21**) may be a result of the adaptability and immediate early gene response requirements of the immune system, and since their positioning is essential for gene expression levels this might also explain why the identified specific SNP variants pose increased risk for disease penetrance.

In addition to pinpointing common loci between allergy and autoimmune diseases, our identification of common loci also suggests a large number of novel allergy loci; 18 of the 29 common loci have not previously been associated with allergy (**Table 2**). Our study suggests that these are all susceptibility loci for allergy that did not reach the criteria for genome-wide significance and was therefore not discovered in previous GWAS.

Furthermore, our combined meta-analysis on allergy and allergic symptoms identified suggestive allergy loci with several previously related to immune function (*NFKB1*⁵⁹ and *CXCR5*⁶⁰, **Supplementary Table 2**). One novel suggestive allergy locus was discovered at rs11122898 and reached the genome-wide significance threshold. This locus is close to *ANAPC1* but is most likely affecting the upstream *MERKT* gene (**Supplementary Figure 22**), which is involved in regulation of dendritic cells via B-cell activating factor (BAFF)⁶¹. One

additional suggestive locus was at *ZBTB38*, and genes within this family have been shown to have important function in naive B-cell differentiation⁶², and have been associated to eczema⁶³ and asthma with hay fever³³ although it has not been shown that these genes are the causal genes within these loci.

In conclusion, we performed the first large study on commonalities in the genetic origins of allergy and autoimmune diseases and documented substantial genetic overlap between these diseases. The recent availability of a vast array of genomics data from the ENCODE and other consortia provides a solid foundation for systems biology analysis in disease settings. Exploiting this approach, we identified common molecular pathways between allergy and autoimmune diseases, identical patterns of overlaps with open chromatin specifically within immune cell-specific regulatory regions, and overlap in transcription factor binding sites, emphasizing common characteristics in gene regulation. Further investigation of these commonalities in genetic mechanisms might improve understanding of important biological pathways that increases the risk of allergy and autoimmune diseases as well as mechanisms differentiating these diverse diseases. Understanding of potential shared genetic origins of allergy and autoimmune diseases, maybe particularly related to the loci with the same direction of effect, could point to vulnerable “hot” points in immune system pathways that may also be affected by other modifiers such as epigenetics and environmental exposures. This insight might provide important clues for understanding the parallel epidemics of these diseases and thereby enforce future disease prevention.

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Competing financial interests

D.H. and J.Y.T. are employees of 23andMe. The remaining authors declared no competing interests of relevance to this paper.

Figure Legends

Figure 1. Commonalities in susceptibility loci and genetic pathways between allergy and autoimmune diseases

A) Autoimmune disease-associated loci and their association with allergy. Quantile-quantile plots representing the observed vs. expected p-values in the combined allergy GWAS for all 290 candidate autoimmune disease-associated loci (large panel), and separately for selected autoimmune diseases (smaller panels). Solid line reflects the p-value distribution under the null, while the dashed line is the distribution of all SNPs from the allergy meta-analysis. T1D: Type 1 diabetes.

B) Commonalities in genetic pathways. Principal component analysis of DEPICT gene set enrichment results based on trait- associated variants for 123 traits from the GWAS Catalog and allergy. The blue area represents the shared minimal ellipsoid area of allergy and autoimmune diseases.

Figure 2. Pathway-based analysis of common loci

Principal component analysis of DEPICT gene set enrichment results based on the 29 common loci between allergy and autoimmune diseases, with each dot representing a single enriched gene set. Loadings for the index genes are illustrated by arrows. Genes denoted in blue and orange represent same and opposite direction of effect for allergy, respectively, as compared to index autoimmune disease. For genes denoted in gray, index autoimmune disease did not report effect allele. The blue areas represent cohesive clusters of gene sets

with similar immune function. The individual gene set names are shown in **Supplementary**

Figure 15.

Figure 3. Common and disease-specific genetic pathways

DEPICT gene-set enrichment map of common (blue), allergy-specific (red) and Crohn's
Disease-specific (green) pathways. The correlation between pathways is depicted by the line
width. Sets with a correlation < 0.4 and singletons are not shown.

Table 1 – Enrichment of significant allergy loci among autoimmune disease-associated loci

Phenotype	# Loci	# Sig. Loci*	Proportion Sig.	eOR	CI	P
All Autoimmune Loci	290	57	0.20	4.36	[3.20-5.85]	1.40E-17[§]
Inflammatory Bowel Disease	178	42	0.24	5.51	[3.80-7.84]	2.60E-16[§]
Crohn's Disease	97	26	0.27	6.53	[4.00-10.36]	5.00E-12[§]
Ulcerative Colitis	60	16	0.27	6.48	[3.41-11.72]	6.40E-08[§]
Multiple Sclerosis	54	12	0.22	5.09	[2.44-9.86]	2.10E-05[§]
Type 1 Diabetes	43	8	0.19	4.07	[1.63-8.94]	1.70E-03[§]
Arthritis	40	9	0.23	5.18	[2.17-11.14]	2.00E-04[§]
Celiac Disease	36	11	0.31	7.85	[3.48-16.53]	1.70E-06[§]
Systemic Lupus Erythematosus	27	4	0.15	3.10	[0.78-9.07]	5.30E-02
Primary Biliary Cirrhosis	23	7	0.30	7.80	[2.71-20.03]	1.40E-04[§]
Psoriasis	19	4	0.21	4.75	[1.15-14.93]	1.62E-02
Graves Disease	15	3	0.20	4.46	[0.81-16.52]	4.20E-02
Ankylosing Spondylitis	11	2	0.18	3.96	[0.42-19.14]	1.10E-01

* With $P < 0.05$ to allergy

Bold: Nominal significant. §: Significant at Bonferroni (0.05/13)

eOR: enrichment Odds-Ratio calculated for autoimmune diseases with at least 10 loci

571

572

Table 2 – Common loci between allergy and autoimmune diseases

Chr:BP	Gene	SNP	MAF*	Beta	P, FDR	Het. P**	Traits§	Direction £	Known allergy Locus	Other genes in LD > 0.5
11:75976 842	<i>C11ORF30</i>	rs215521 9[T]	0.47	0.12	6.10E-23	5.20E-03	CrD(+), <u>IBD(+)</u> , UC(+)	Same	Yes\$	-
3:189595 248	<i>LPP</i>	rs146451 0[A]	0.48	-0.07	4.20E-07	1.40E-01	<u>CeD(-)</u>	Opposite	Yes\$	-
2:198605 140	<i>PLCL1</i>	rs673882 5[A]	0.48	0.06	9.20E-07	1.90E-01	<u>CrD(+)</u>	Same	Yes\$	ANKRD44, BOLL, COQ10B, HSPD1, HSPF1, MARS2, MOB4,, RFTN2, SF3B1
6:314440 79	<i>HLA-B</i>	rs774376 1[A]	0.26	-0.07	1.90E-06	4.00E-01	<u>AS(na)</u> , GD(-), SLE(+), UC(+)	na	Yes\$	-
15:65229 650	<i>SMAD3</i>	rs172936 32[T]	0.27	0.07	2.00E-06	1.90E-01	<u>CrD(+)</u> , IBD(+)	Same	Yes\$	-
17:35175 785	<i>IKZF3</i>	rs907092[A]	0.49	-0.06	4.10E-05	8.30E-01	CrD(-), <u>IBD(-)</u> , PBC(-), T1D(-), UC(-)	Opposite	Yes\$	GSDMB, ORMDL3, ZPBP2
8:128884 211	<i>MYC</i>	rs441087 1[T]	0.28	0.06	4.10E-05	8.60E-04	<u>MS(-)</u>	Opposite	Yes\$	-
12:11036 8991	<i>SH2B3</i>	rs318450 4[T]	0.45	-0.06	5.30E-05	7.50E-02	A(-), CeD(- , <u>T1D(-)</u>	Opposite	Novel	ACAD10, ADAM1, ALDH2, ATXN2, BRAP, C12orf47, C12orf51, ERP29, MAPKAP5, NAA25, TMEM116, TRAFFD1
13:41950 880	<i>AKAP11</i> , <i>TNFSF11</i>	rs206230 5[A]	0.43	-0.05	2.00E-03	8.50E-01	<u>CrD(+)</u>	Same	Novel	-
16:11087 374	<i>CLEC16A</i>	rs127087 16[A]	0.35	0.05	2.00E-03	8.60E-02	MS(+), PBC(+), <u>T1D(+)</u>	Same	Yes\$	-
9:135139 050	<i>ABO</i>	rs505922[T]	0.37	-0.05	2.00E-03	2.90E-01	<u>GD(+)</u>	Opposite	Novel	-
12:11097 1201	<i>C12ORF30</i>	rs176967 36[A]	0.42	0.05	2.20E-03	1.50E-01	<u>T1D(-)</u>	Opposite	Novel	-
4:103770 651	<i>NFKB1E</i>	rs766509 0[A]	0.49	0.04	2.70E-03	7.00E-01	<u>PBC(-)</u>	Opposite	Novel	MANBA
1:165678 008	<i>CD247</i>	rs864537[A]	0.38	0.04	4.80E-03	6.10E-01	A(+), CeD(+), SC(+)	Same	Novel	-
14:67823 346	<i>RADSNB</i>	rs911263[T]	0.29	-0.04	6.40E-03	1.80E-02	<u>PBC(-)</u>	Opposite	Novel	-
22:39761 288	<i>EP300</i>	rs482042 5[A]	0.29	0.05	6.60E-03	8.60E-01	<u>CrD(+)</u>	Same	Novel	CHADL, DNAJB7, L3MBTL2, RANGAP1, ST13, XPNPEP3, ZC3H7B
1:150068	<i>RORC</i>	rs484560	0.14	-0.06	7.50E-03	7.40E-01	<u>IBD(+)</u>	Same	Novel	-

304		4[A]								
10:61095 67	<i>IL2RA</i> , <i>IL15RA</i>	rs127225 63[A]	0.12	0.06	7.50E-03	1.00E+00	<u>T1D(na)</u>	na	Yes\$\$	-
21:39387 404	<i>PSMG1</i>	rs283687 8[A]	0.26	0.05	7.50E-03	3.10E-01	AS(-), <u>IBD(-)</u> , UC(-)	Opposite	Novel	-
12:46494 635	<i>HDAC7</i> , <i>VDR</i>	rs111682 49[T]	0.48	0.04	8.70E-03	4.60E-01	<u>IBD(-)</u>	Opposite	Novel	-
6:331680 96	<i>HLA-DPB2</i>	rs228138 8[A]	0.02	-0.13	8.80E-03	3.10E-01	<u>GD(-)</u>	Opposite	Novel	-
6:910149 52	<i>BACH2</i>	rs117555 27[C]	0.42	0.04	8.80E-03	3.90E-02	CrD(+), <u>T1D(-)</u>	Opposite	Yes\$\$\$	-
6:138048 197	<i>TNFAIP3</i>	rs692022 0[A]	0.22	-0.05	1.00E-02	3.20E-01	A(-), CeD(-), <u>IBD(-)</u> , UC(-)	Opposite	Novel	-
5:141493 388	<i>NDFIP1</i>	rs686341 1[A]	0.37	-0.04	1.00E-02	4.90E-02	<u>IBD(+)</u>	Same	Yes\$\$\$	-
1:102756 99	<i>KIF1B</i>	rs104929 72[T]	0.34	0.04	1.40E-02	5.00E-01	<u>MS(-)</u>	Opposite	Novel	PGD, UBE4B
11:63864 311	<i>RPS6KA4</i>	rs663743[A]	0.36	0.04	2.50E-02	2.40E-01	CrD(-), <u>S(+)</u>	Same	Novel	CCDC88B, ESRRA, GPR137, PRDX5, TRMT112
12:56482 180	<i>ERBB3</i>	rs229223 9[T]	0.32	0.04	2.50E-02	2.10E-01	<u>T1D(+)</u>	Same	Novel	IKZF4, SUOX
2:436604 22	<i>THADA</i>	rs104959 03[T]	0.12	0.05	3.40E-02	5.50E-01	CrD(+), <u>IBD(+)</u>	Same	Novel	-
3:329904 73	<i>GLB1</i> , <i>CCR4</i>	rs133149 93[T]	0.43	-0.03	4.70E-02	8.00E-02	<u>CeD(+)</u>	Same	Novel	-

* As reported by Bønnelykke et al.⁵

** Test for heterogeneity within the allergy meta-analysis

§ Reported traits associated with locus (autoimmune trait marker LD with allergy marker > 0.6 and allergy marker $p < 0.05$) A: Arthritis, AS: Ankylosing Spondylitis, CeD: Celiac Disease, CrD: Crohn's Disease, GD: Graves Disease, IBD: Inflammatory Bowel Disease, MS: Multiple Sclerosis, P: Psoriasis, PBC: Primary Biliary Cirrhosis, SLE: Systemic lupus erythematosus, SS: Systemic Sclerosis UC: Ulcerative Colitis, T1D: Type 1 Diabetes. The index disease used in the comparison of effect direction marked by bold and underlined. +/- denotes direction of effect for the autoimmune disease compared to the direction allergy.

£ As compared to index autoimmune disease (underlined and bold in the "Traits" column)-SNP effect direction.

Na: Some diseases have not reported the effect allele

§ Genome-wide significant association to allergy/allergic sensitization reported by Hinds et al, and/or Bønnelykke et al.^{4,5}

\$\$ Suggestive association to asthma with hayfever reported by Ferreira et al.³³

\$\$\$ Suggestive association to asthma reported by Ferreira et al.³²

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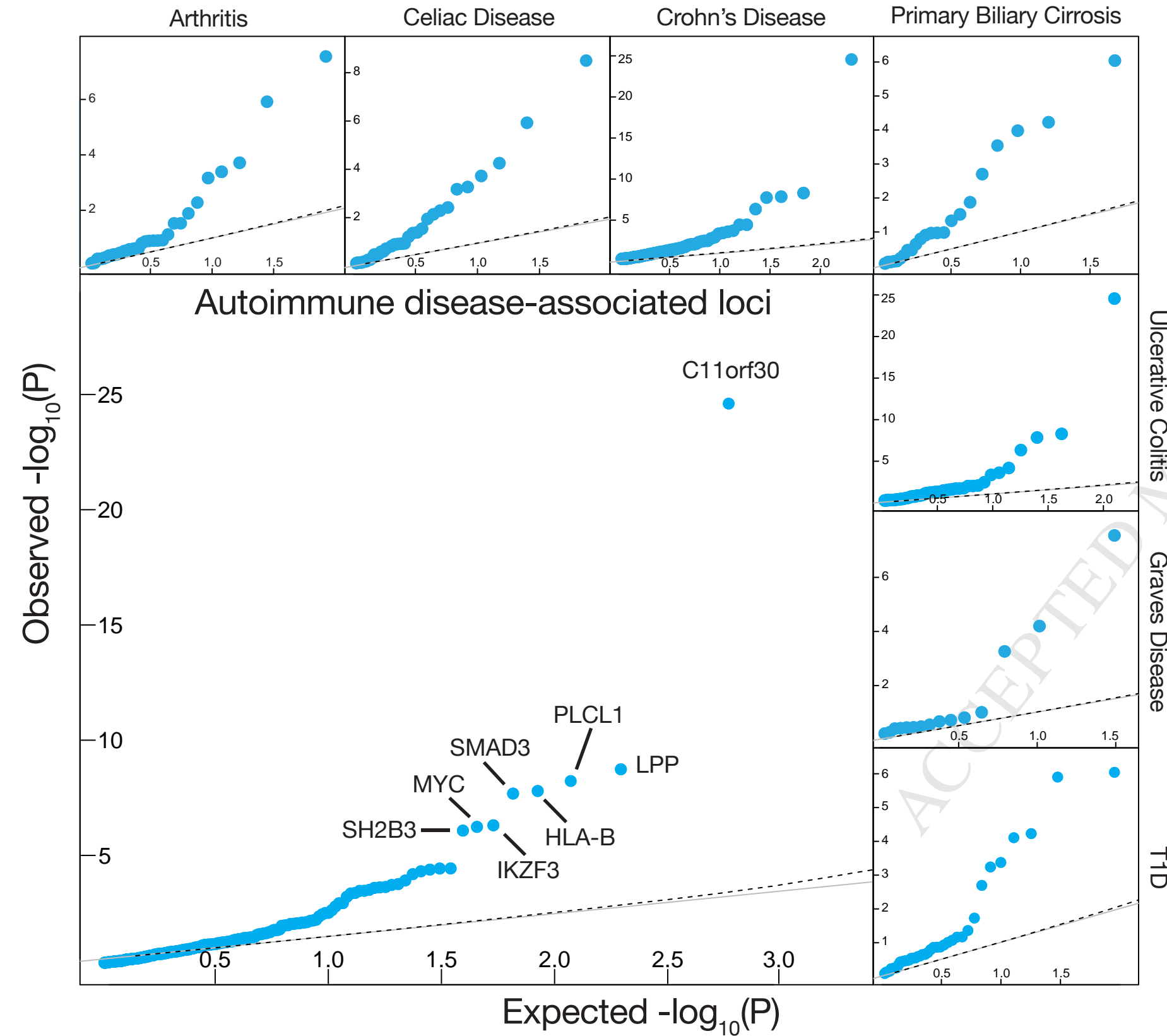
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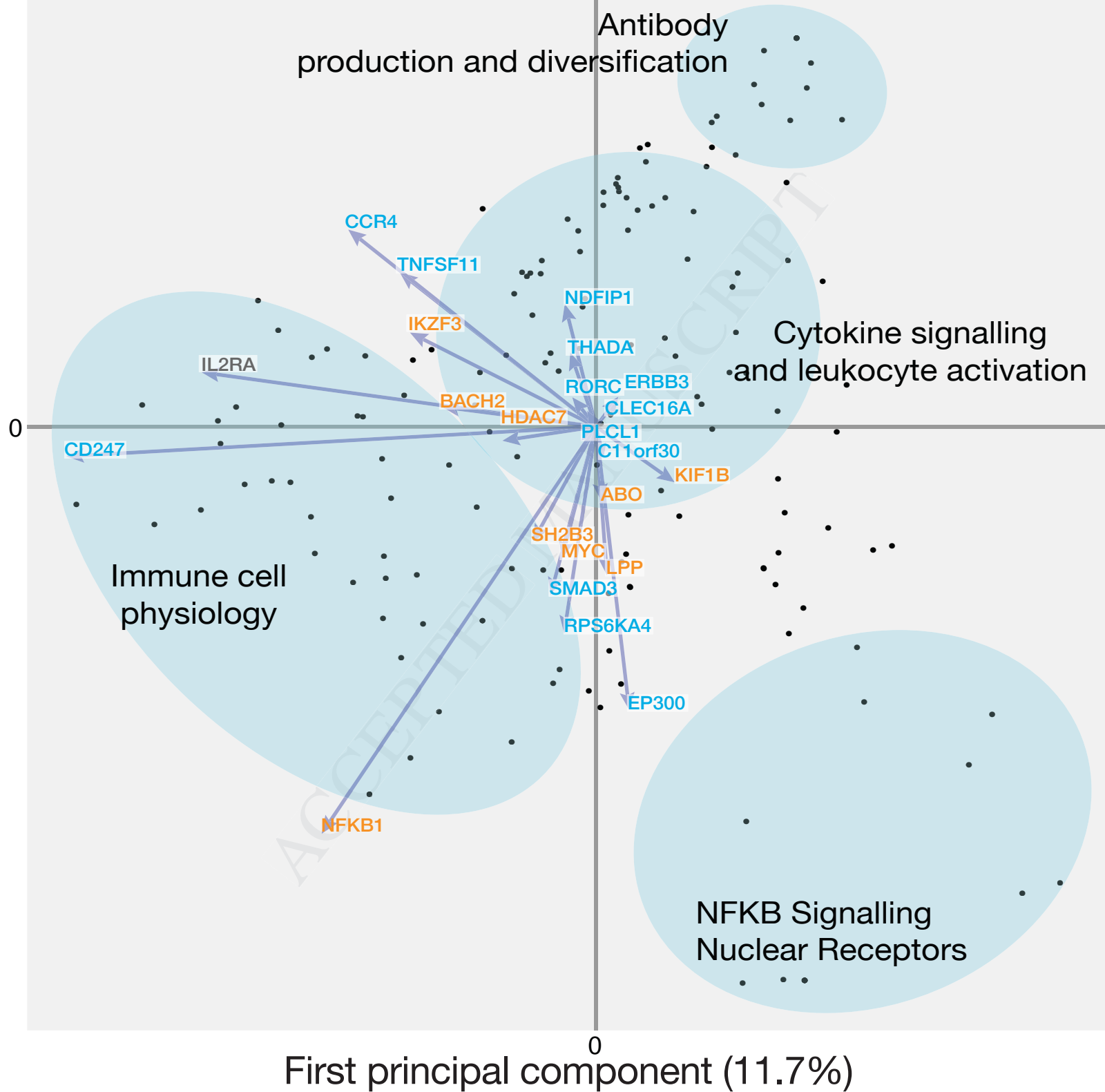
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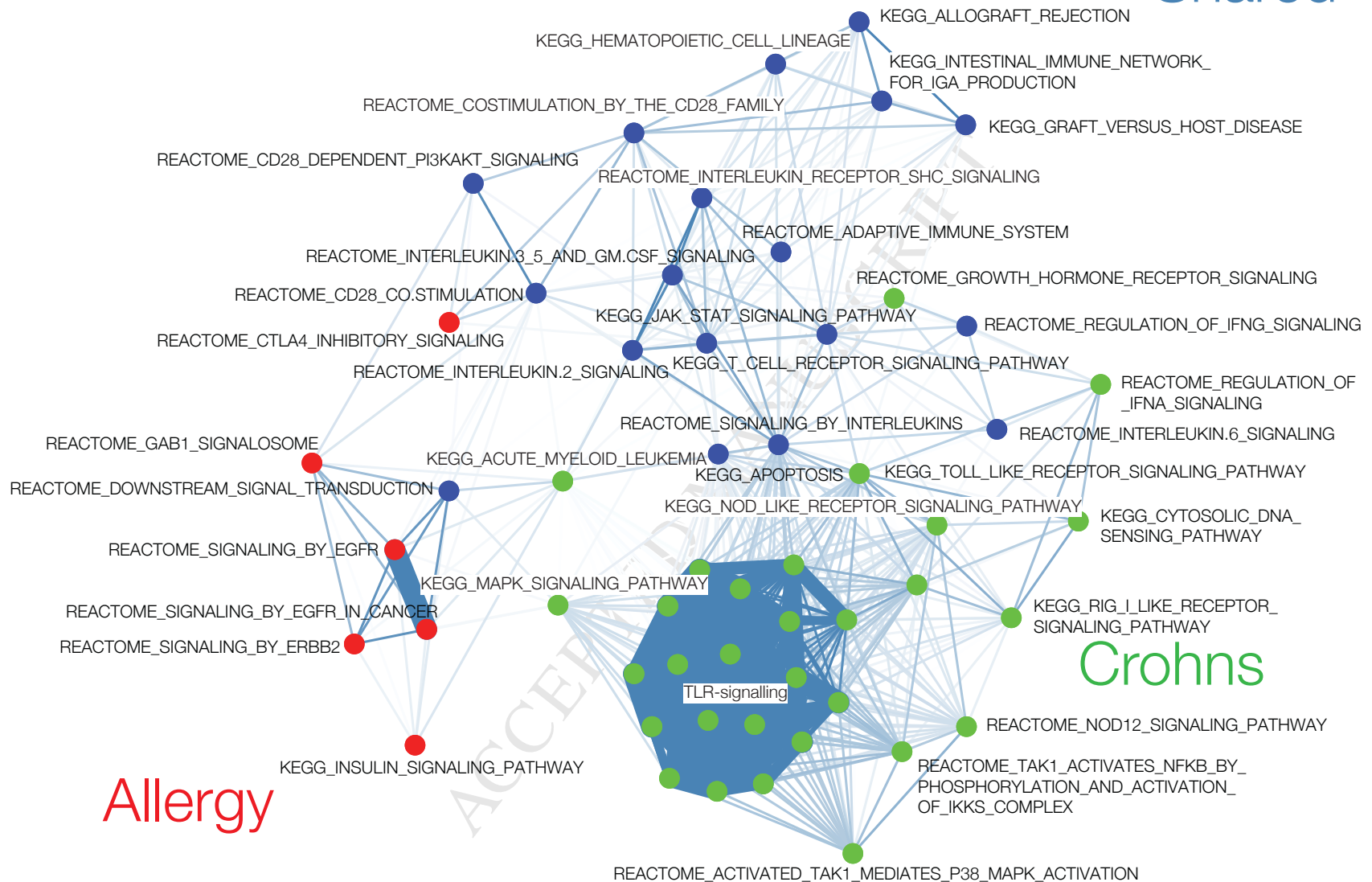


Second principal component (6.7%)



Second principal component (8.8%)





Allergy

Crohns

Geneset gene membership
correlation



Supplement - Shared genetic variants suggest common pathways in allergy and autoimmune diseases

ACCEPTED MANUSCRIPT

Supplementary Methods

Discovery and meta-analysis

Discovery results from an allergic sensitization GWAS was included as one of the datasets comprising results from 5,809 with allergic sensitization and 9,875 controls with data from the following cohorts: AAGC, ALSPAC¹, B58C, COPSAC2000, LISA, MAAS, NFBC 1966, RAINE and PIAMA. Please see discovery paper for ethical statements, cohort profiles and numbers.² Sensitization status was assessed objectively by either elevated levels of allergen-specific IgE (sIgE) in blood or by a positive skin reaction after skin prick test (SPT) against common food and inhalant allergens. The SPT cut off level was 3 mm larger than the negative control for cases, and below 1 mm for controls. For sIgE, cases were defined as levels at or above 3.5 IU/mL and for controls below 0.35 IU/mL. Imputation was independently conducted for each study with reference to HapMap phase 2 or 3 CEU genotypes (Central European ancestry). Study level association analysis was performed using logistic regression models based on an expected additive allelic dosage model for SNPs, adjusting for ancestry-informative principal components as necessary. SNPs with MAF <1% and/or poor imputation quality (MACH r^2 <0.3 or IMPUTE proper info <0.4) were excluded. After genomic control at the level of the individual studies, the summary statistics were meta-analyzed using a fixed effects model and inverse variance as weights in METAL (2010-08-01). In total 2,400,129 SNPs were available in three or more cohorts.

GWAS results from the 23andMe study were included in the present study involving 10,509 individuals with self-reported cat-allergy, 9,815 with Dust-mite allergy, 16,133 with Pollen allergy (grasses, trees or weeds) and 26,311 without symptoms in a total of 46,646 individuals. Allergy was defined as those individuals who reported a positive allergy test, difficulty in swallowing or speaking, hives, itchy mouth, itchy eyes, itchy nose or asthma in response to a particular allergen.³ The second part of the study sample on self-reported allergy (mothers from the Alspac cohort) was not included in the present study as these individuals are related to individuals in the GWA on sensitization.

Imputation was performed in the 23andMe study using the 1000 Genomes reference (August 2010 release) in batches. SNPs with an imputed $r^2 > 0.5$ averaged across all batches and $r^2 > 0.3$ in every batch were used. SNPs were remapped to B36. A generalized estimating equation (GEE) model was applied to assess the shared genetic effects on all three phenotypes taking into account the correlations between these phenotypes.

The meta-analysis was performed using a fixed effects model using inverse variance as weights in METAL (2010-08-01)⁴ after a second genomic control for the meta-analysis of the dataset on self reported allergy and sensitization.

Enrichment of autoimmune disease-associated loci and allergy

Candidate loci were chosen from the GWA's catalog⁵ accessed 25th of November 2013 using autoimmune and inflammatory traits of interest (**Supplementary Table E1**). These reported traits were collapsed into 16 overall autoimmune disease traits. All SNP-trait associations with $P < 5e-8$ were used. We collapsed close SNPs into loci ($\pm 250\text{kb}$)⁶ and used for each locus the SNP with lowest reported P as index SNP (**Supplementary Figure 1**). For common loci (listed in table 2), all original publications were checked for effect allele, and any discrepancies with the GWA'S catalog was corrected. After the extraction of SNP-associations, the enrichment Odds Ratio was calculated as the number of observed extracted SNPs with $P < 0.05$ out of total extracted SNPs as compared to total number of independent SNPs with $P < 0.05$ within the GWA discovery results using a Fisher's exact test. For this we used Hapmap, CEU panel, to define independent loci. This was performed using PLINK (--indep-pairwise 200 5 0.5) with a sliding window on 200 SNPs at steps on 5 SNPs pruning the datasets to contain only one of 2 correlated SNPs with a $r^2 > 0.5$. To plot enrichment, we equally plotted observed P -values against expected under the null hypothesis (QQ plots). Enrichment and QQ plots were plotted overall for all 290 loci and separately for each of the 16 autoimmune diseases, however only for those diseases with more than 10 loci reported in the GWA catalogue. For extracted SNPs a False Discovery Rate corrected P -value < 0.05 was considered significant. Analysis were performed in Plink⁷ and R project (3.0.1)⁸.

Functional evaluation

Enrichment of SNPs falling in DHS sites:

DHS sites were downloaded from the ENCODE project⁹ and from the Epigenomics Roadmap¹⁰ selecting only cell types (or cell lines, herefrom “cell types”) with duplicates, removing transformed cell types, and removing redundant cell lines, based on manual curation. Huh7 was an outlier in all analyses, and was removed. DHS sites were set to a fixed width of 150bp from center of region for all cell types. Allergy and Crohn’s Disease SNPs were split in bins of increasing p-value cutoff, starting at 1 (including all SNPs and setting baseline for enrichment) and decreasing one decimal digit each bin (1, 0.1, 0.001 etc). Each bin was overlapped with DHS regions using bedtools v2.19.0, and enrichment for each bin was calculated for each cell type as compared to $p = 1$. For GWAS Catalogue SNPs, SNPs were selected for traits with > 30 reported associated SNPs. For identical SNPs for the same trait, the SNP with the lowest p-value was chosen. SNPs were then overlapped with DHS regions using bedtools v2.19.0, and ratio of overlapping SNPs was calculated. To filter out non-informative cell-types, only cell-types with the highest quartile of overlap ratios was included. For immune cell hierarchical clustering the manhattan distance of square root transformed ratios were used. For PCA, log10 transformed ratios were used.

Enrichment of SNPs falling in FANTOM enhancers:

FANTOM cell specific enhancers were downloaded from ‘<http://enhancer.binf.ku.dk/>’ and were set to a fixed width of 150bp from center of region for all cell types. The ratio between overlaps of all SNPs ($p \leq 1$) and SNPs at $p \leq 1e-5$ was calculated, and a p-value for this ratio calculated using a binomial test with the genomic overlap frequency as null frequency, calculated as the number of total enhancers per cell type times enhancer length (150bp), divided by the total number of base pairs shown to be bound by transcription factors in the human genome across cell types in the ENCODE project (231mb)⁹. FDR values were calculated adjusting p-values with the Benjamini-Hochberg method.

Data-driven Enrichment-Prioritized Integration for Complex Traits (DEPICT):

For details of this method please refer to Pers et al.¹¹. DEPICT facilitates gene set enrichment analysis by testing whether genes in associated regions enrich for reconstituted versions of known pathways, gene sets, as well as protein complexes. The gene-set enrichment analyses in DEPICT contains three steps: first a scoring step; second a bias correcting step taking into account gene density that possibly could inflate results due to gene length and finally estimating experiment-wide FDR's.

Gene set reconstitution is accomplished by identifying genes that are co-expressed with genes in a given gene set based on a panel of 77,840 gene expression microarrays; genes that co-express with genes from a given gene set are likely to be part of that gene set.¹² In DEPICT, several types of gene sets were reconstituted: 5,984 protein complexes that were derived from 169,810 high-confidence experimentally-derived protein-protein interactions¹³; 2,473 phenotypic gene sets derived from 211,882 gene-phenotype pairs from the Mouse Genetics Initiative¹⁴; 737 Reactome database pathways¹⁵; 184 KEGG database pathways¹⁶; and 5,083 Gene Ontology database terms¹⁷. In addition, the DEPICT also facilitates tissue and cell type enrichment analysis, by testing whether genes in associated regions are highly expressed in any of 209 Medical Subject Heading annotations of 37,427 microarrays from the Affymetrix U133 Plus 2.0 Array platform. We used DEPICT to test enrichment in a total of 14,461 reconstituted gene sets and enrichment of 209 tissue and cell type annotations. For the allergy meta-analysis, and Crohns disease, DEPICT was performed on all loci $P < 10e-5$. For PCA GWAS catalogue data, DEPICT was performed on all traits with more than 30 reported associated SNPs. For identical SNPs for the same trait, the SNP with the lowest p-value was chosen.

Pathway analysis and visualization for allergy and Crohn's disease:

To account for difference in GWAS study sizes, a linear model was fitted between logged p-values of DEPICT results for allergy and Chron's disease, and the estimator was used to adjust the p-value thresholds for the largest study, Crohn's disease. The inflation estimate for Crohn's disease was 1.21. Shared pathways were set at p_{allergy} and $p_{\text{crohns_adjusted}} < 0.001$, allergy specific pathways were set at $p_{\text{allergy}} < 0.001$ and $p_{\text{crohns_adjusted}} > 0.05$ and Crohn's disease specific pathways were set at $p_{\text{allergy}} > 0.05$ and $p_{\text{crohns_adjusted}} < 0.001$.

DHS genomic location:

Genomic regions for 186 cell types, of which 14 cell types (CD14_Primary_Cells, CD19_Primary_Cells_Peripheral_UW, CD20, CD3_Primary_Cells_Cord_BI, CD3_Primary_Cells_Peripheral_UW, CD34Mobilized, CD56_Primary_Cells, Th0, Th1, Th17, Th2, Treg, GM12864, and Fetal_Thymus) were annotated as immune cells, were downloaded from the ROADMAP and ENCODE tracks (June 2014) in the UCSC Genome Browser and processed by bedtools, ensuring no redundancy between exons, introns, promoters (defined as 5000 bases upstream and 200 bases downstream of transcription start sites), and intergenic sites. DHS sites were overlapped with genomic regions, requiring 1bp of overlap. Enrichment of markers in DHS regions was calculated for GWAS catalog traits with 30 or more reported variants, and was normalized by trait SNP count and cell type specific DNase sequence lengths.

The uneven distribution of cell types within the Roadmap ENCODE dataset could possibly contribute to the separation of immune-mediated diseases from other diseases. However, repeated iterative removal of $\frac{1}{4}$ of cell types continuously produced a statistical significant separation of autoimmune diseases, allergy and asthma vs. other traits (results not shown), hence supporting the finding of common SNPs and cell types to congregate in allergy and autoimmune diseases. In addition, hierarchical clustering was performed on the full ENCODE Roadmap set to investigate if this clustering was facilitated by similar DHS-profiles in different immune cells, basically representing a single “immune-system-footprint”, but this was not the case, as different immune cell types also separated internally, comparable to other non-immune cell types (**Supplementary Figure 18**).

A further cluster analysis of the cell-type specific genomic DHS location in all cells (intronic, exonic, intergenic, promotor) was performed revealing that the DHS sites in immune cells tend to fall within promotor and exonic regions (**Supplementary Figure 19**).

Transcription factor binding sites:

Transcription factor binding sites for 161 transcription sites were downloaded in BED format from ENCODE for the hg19 build, and were intersected with 28 independent shared loci, expanded to included markers with $r^2 \geq 0.5$ in the 1000g CEU panel, using BedTools. Enrichment and one-sided p-values were calculated in relation to an empirical null distribution of loci overlap for each TF, generated by 10,000 random permutations of random genomic loci with the same length characteristics as the 28 LD-expanded shared loci. Random locus LD-structure was assumed to have no effect on TF-binding probability as a function of locus length.

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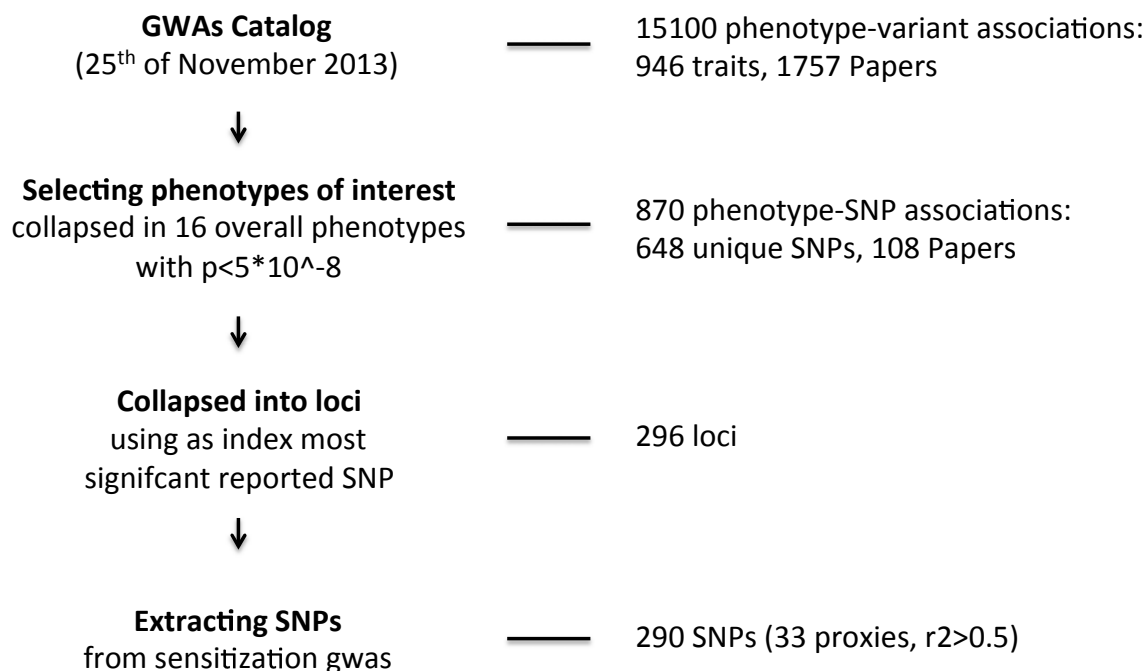
The PIAMA study is supported by the Dutch Asthma Foundation (grant 3.4.01.26, 3.2.06.022, 3.4.09.081 and 3.2.10.085CO), the ZonMw (a Dutch organization for health research and development; grant 912-03-031), and the ministry of the environment.

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Supplementary Figure 1

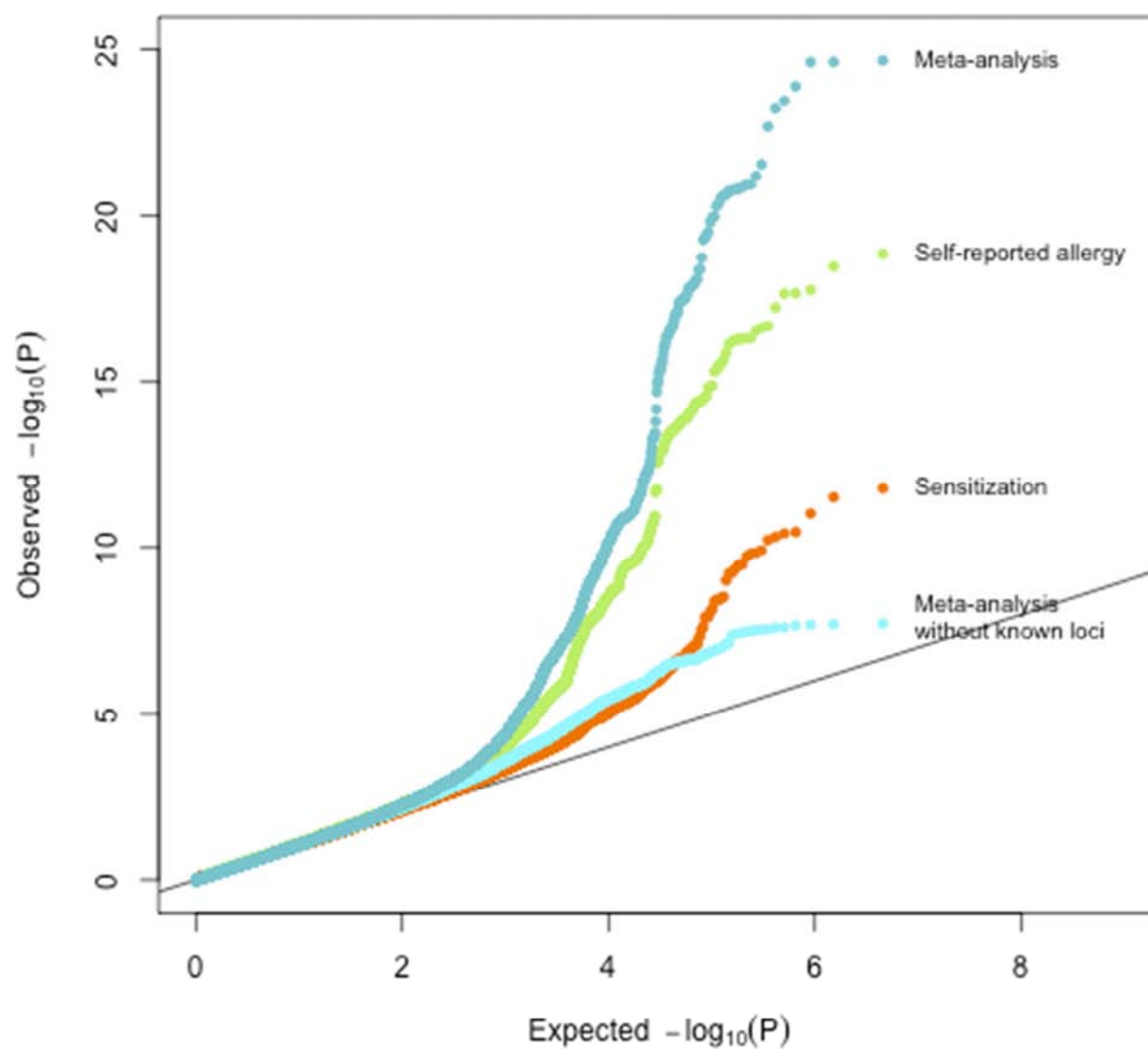
Flowchart of the selected known autoimmune disease associated SNPs/loci for lookup in the allergy GWAS identified within the GWA's catalog (accessed 25th of November 2013). Please also see methods section here in the supplement. A detailed description for each step in the flow chart:

- 1) The GWA's catalog⁵ were accessed 25th of November 2013.
- 2) All autoimmune diseases and associations to SNPs were selected with $p < 5 \times 10^{-8}$. The chosen traits were collapsed into 16 overall autoimmune disease categories (see supplemental table 1)
- 3) We collapsed close SNPs into loci ($\pm 250\text{kb}$)⁶ and used for each locus only the SNP with lowest reported P as index SNP and as representative for the specific locus.
- 4) For several of the SNPs we had to use a proxy SNP as the index SNP were not present within the allergy GWAS. Proxy SNPs were chosen on highest r^2 to index SNP and if two or more proxies had the same r^2 the SNP closest in physical distance to the index SNP were chosen. In total 290 SNPs were available for look up/extraction within the allergy GWAS.



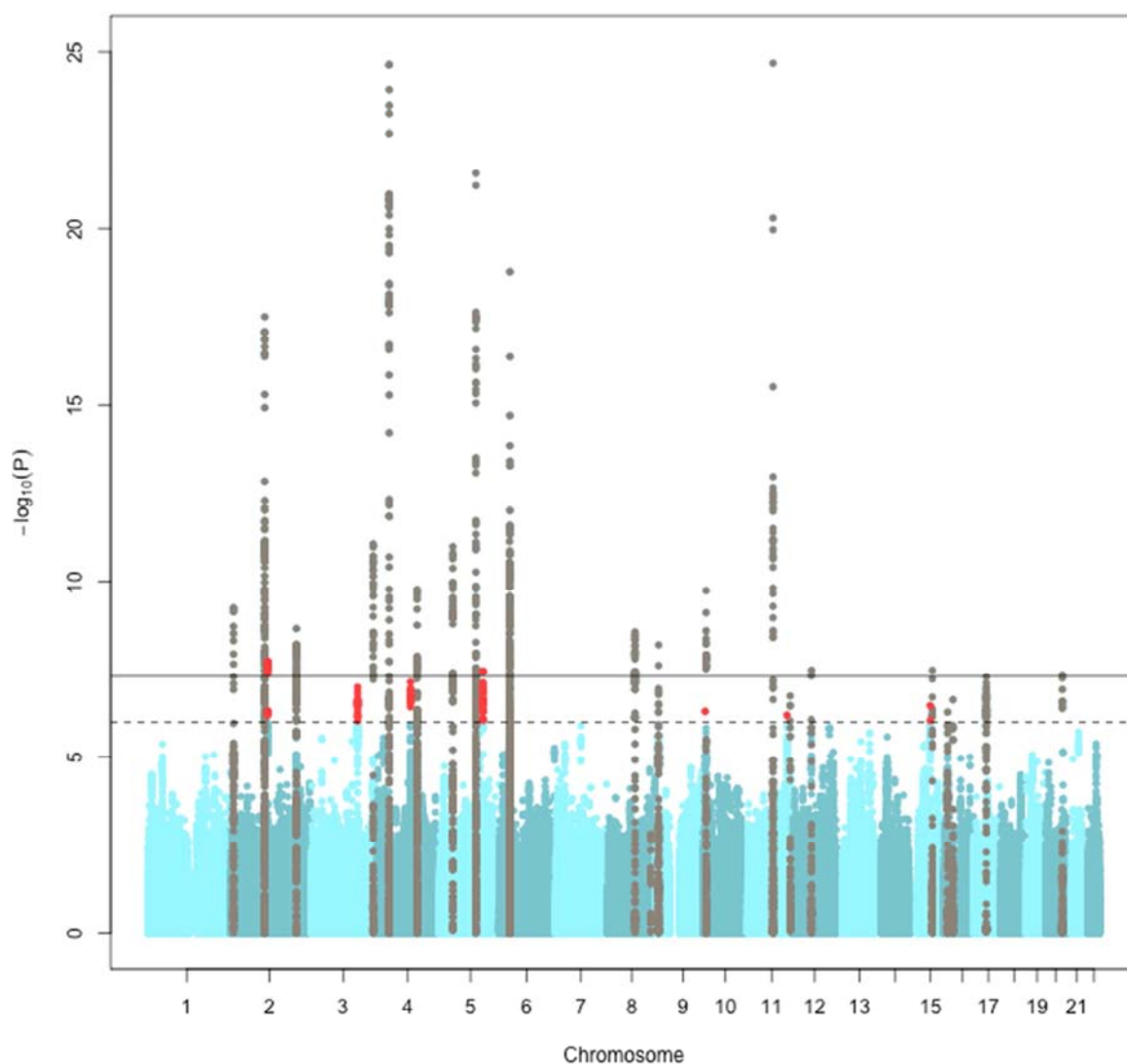
Supplementary Figure 2

QQ plot of the of the meta-analysed 2,284,215 SNPs and association to 1) Sensitization²
2) Self-reported allergy³ 3) These two data-sets meta-analysed and 4) Without reported known loci



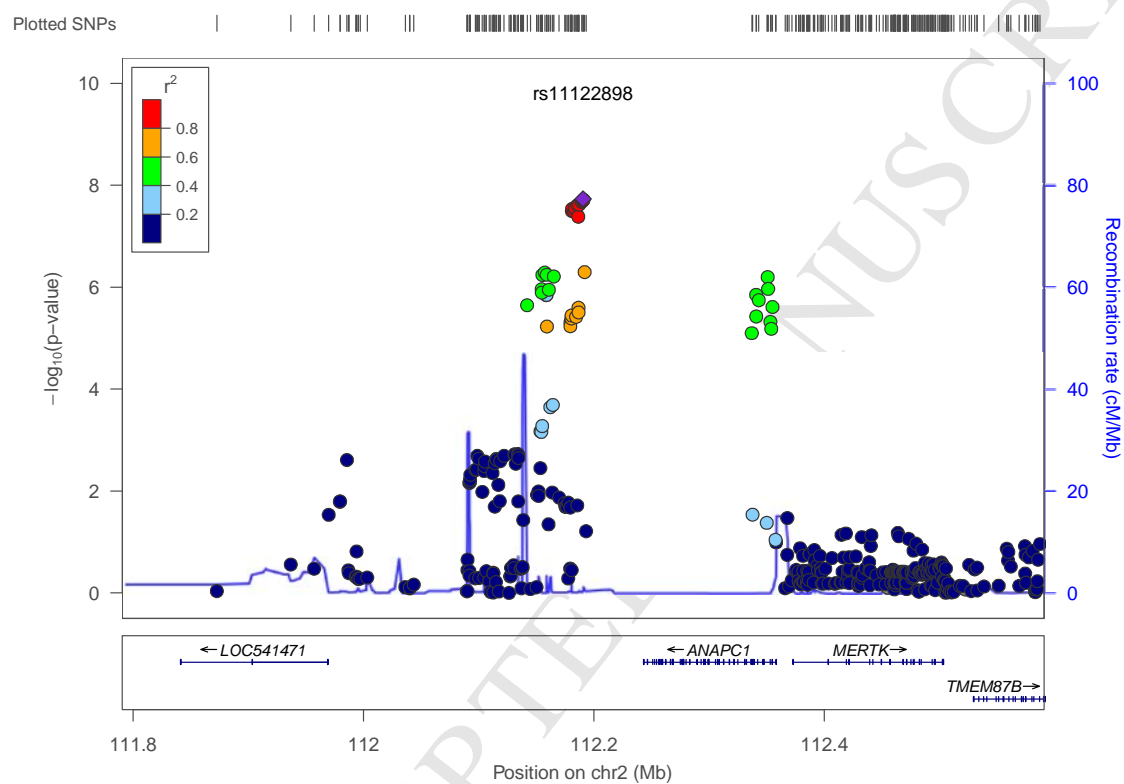
Supplementary Figure 3

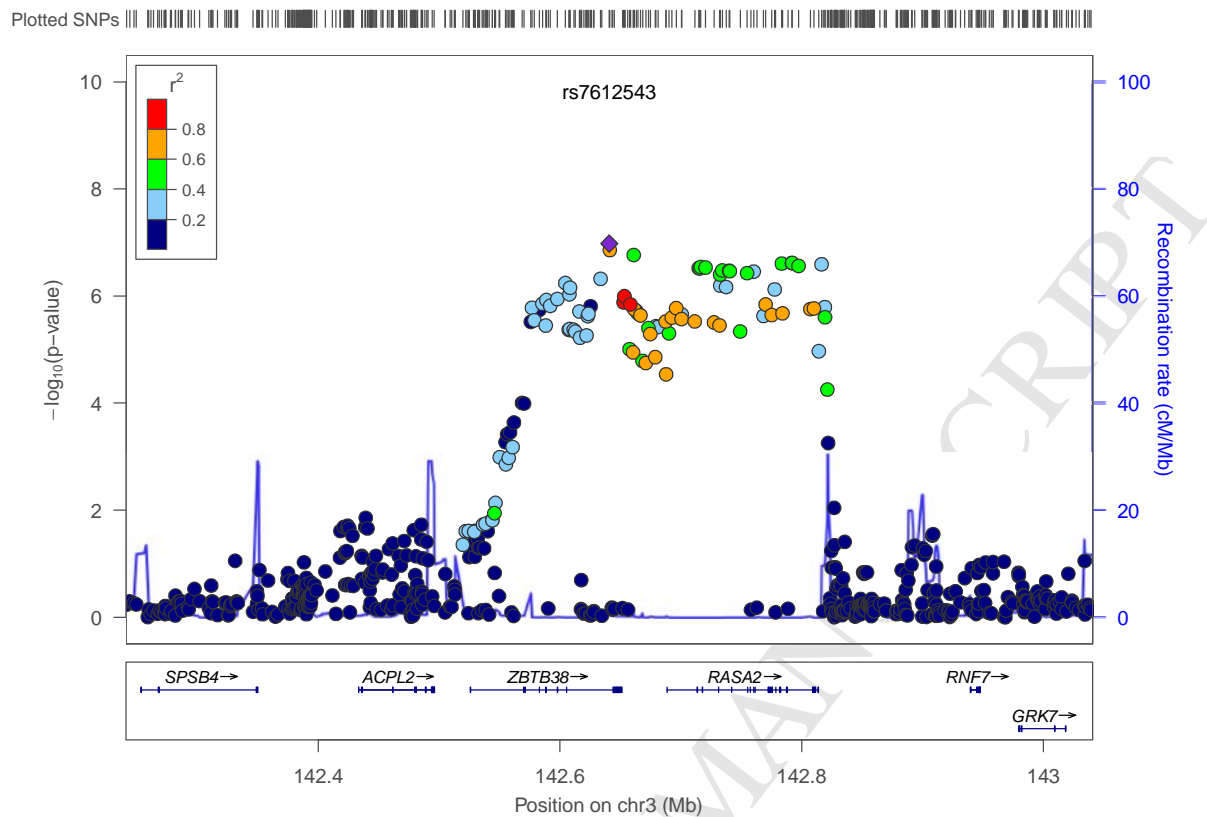
Manhattan plot of the of the meta-analysed 2,284,215 SNPs and association to allergy. Red dots indicate novel loci not described in the discovery papers (grey)^{2,3}, with $p < 5 \times 10^{-6}$. Dashed line: 10^{-6} . Solid line: 5×10^{-8} .



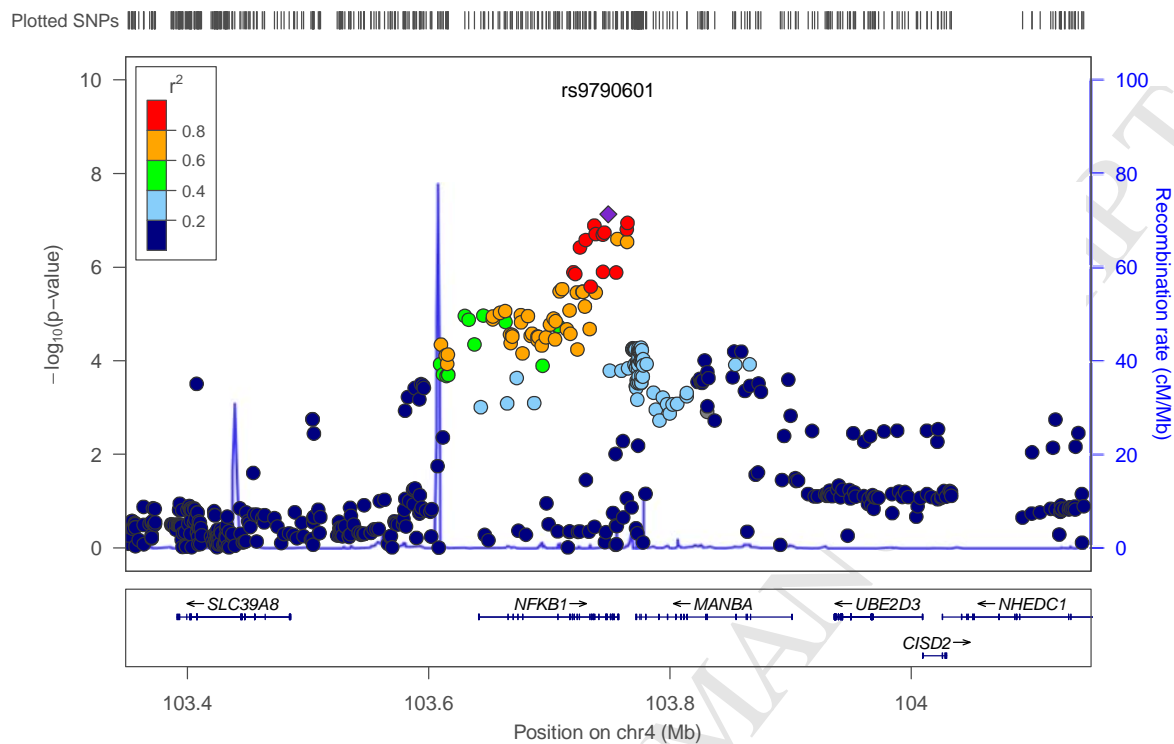
Supplementary Figure 4

LocusZoom plots of the suggestive novel loci from the allergy meta-analyses

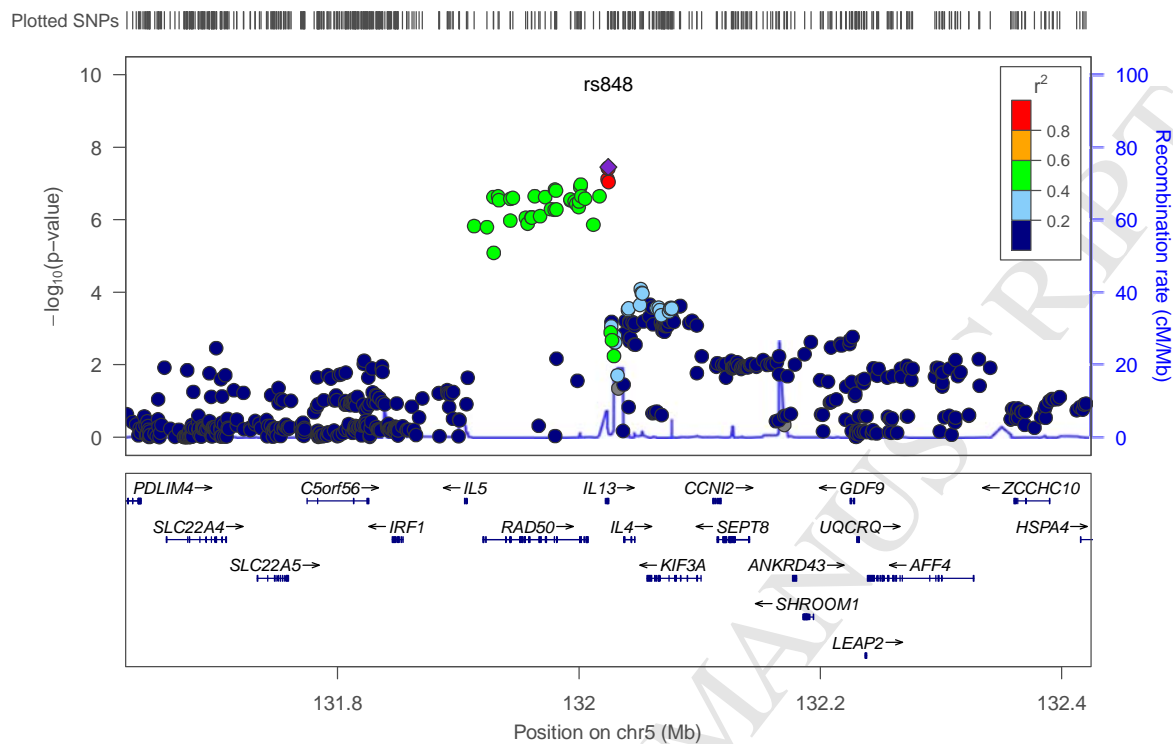




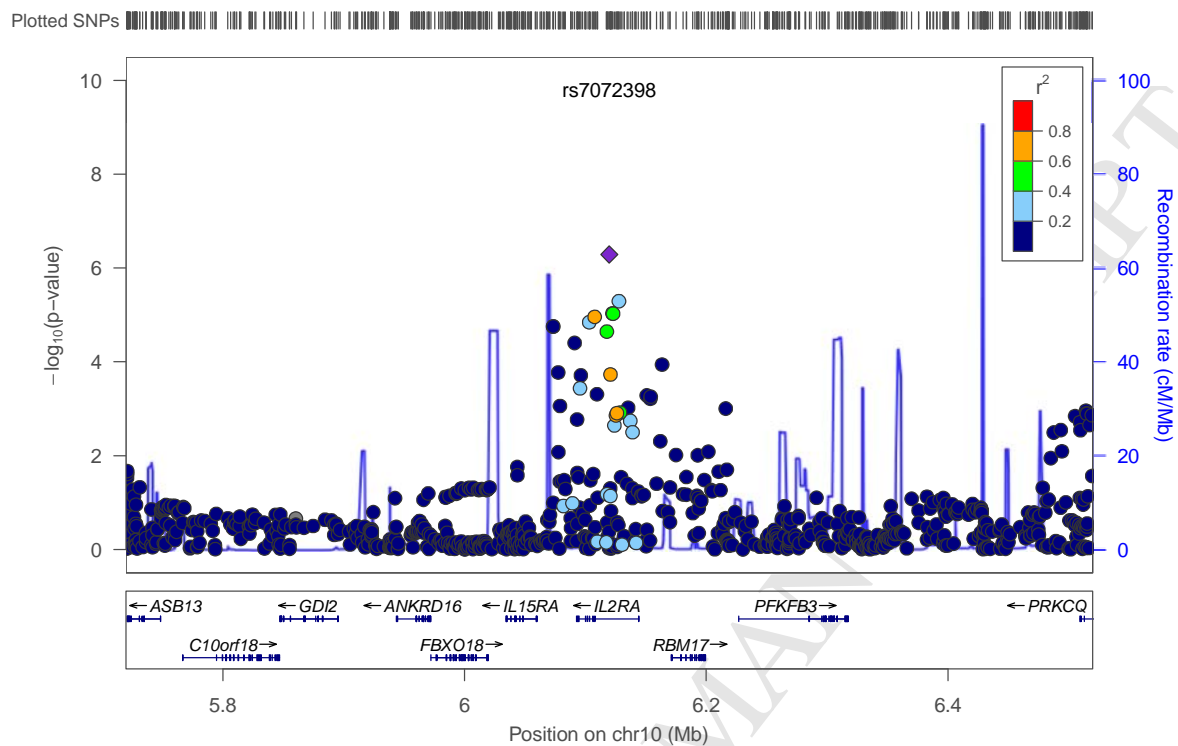
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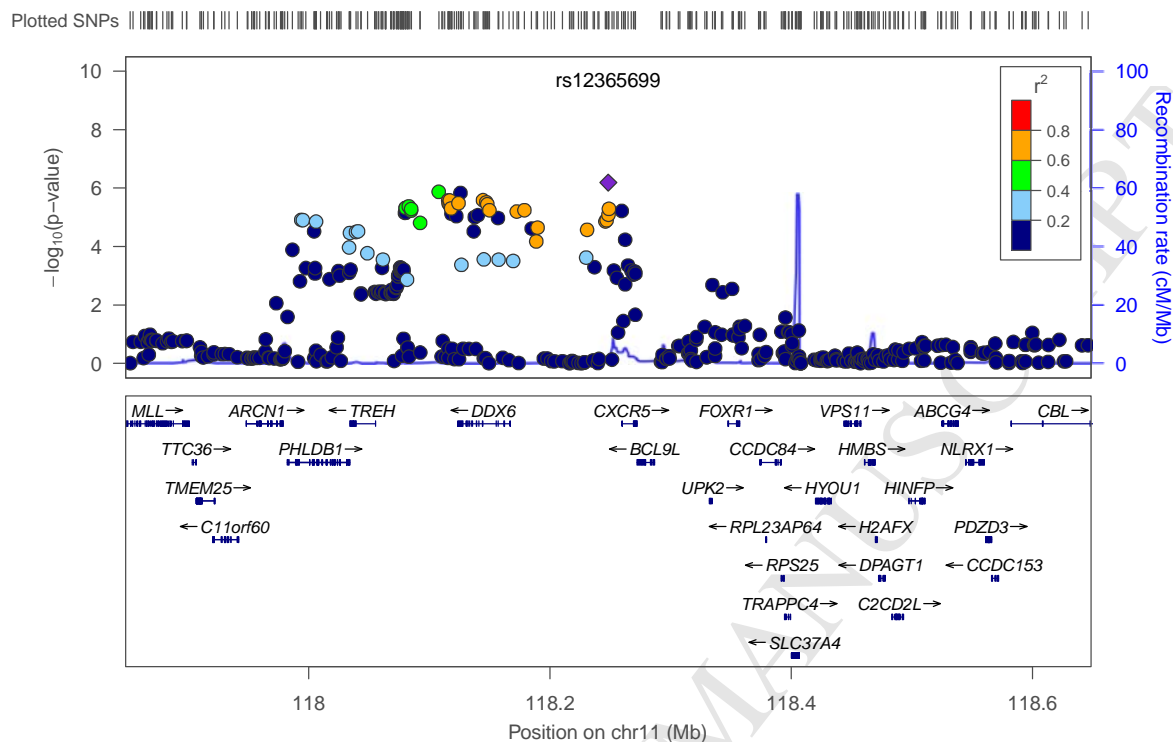
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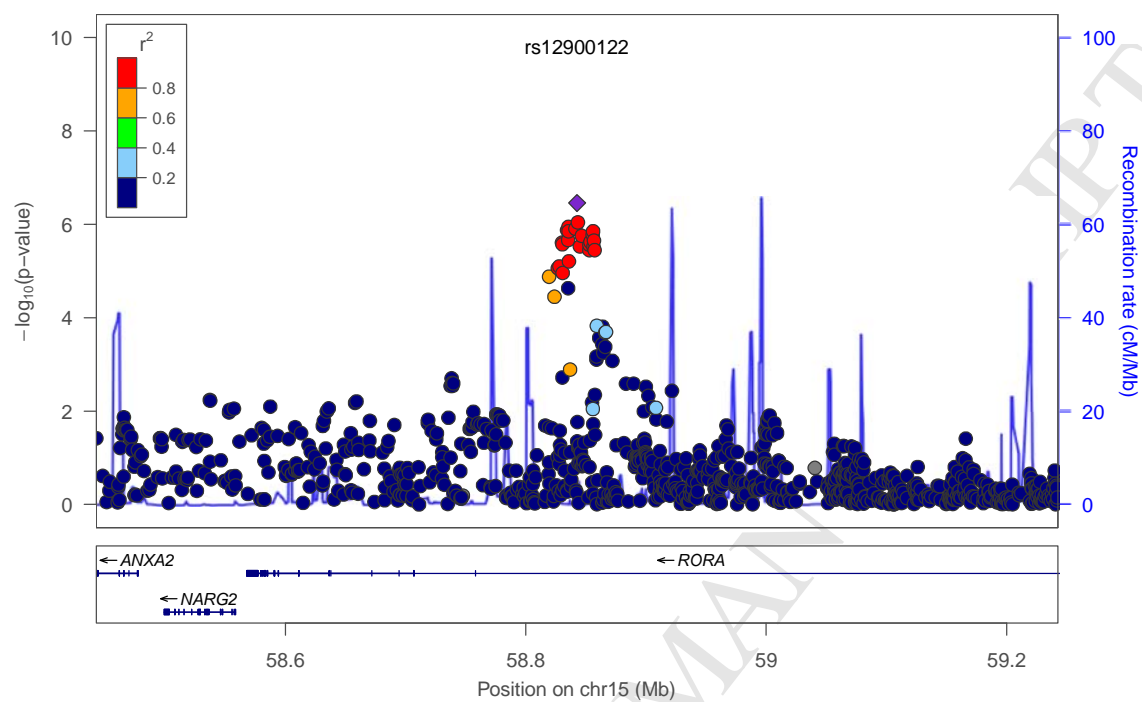


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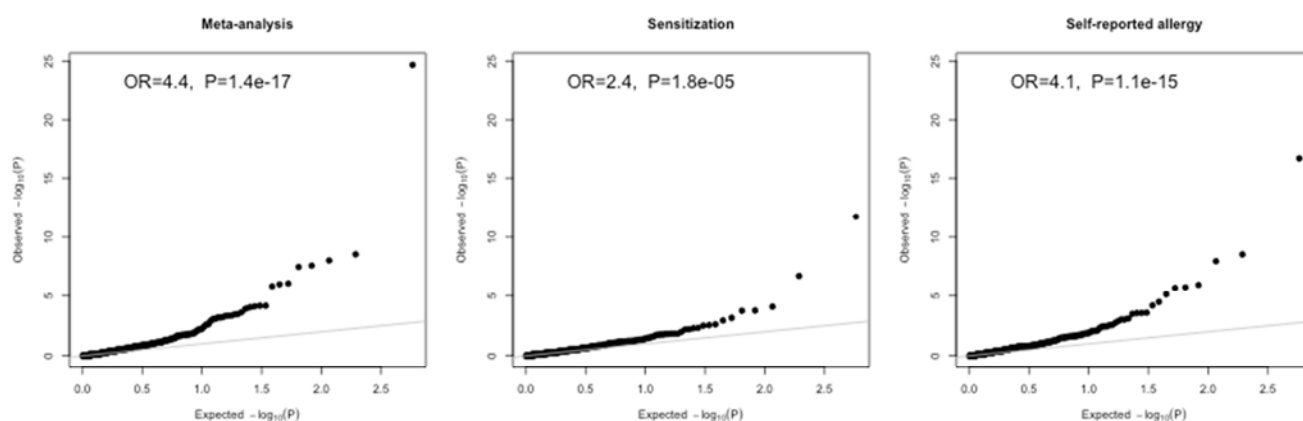
rs12900122

Plotted SNPs



Supplementary Figure 5

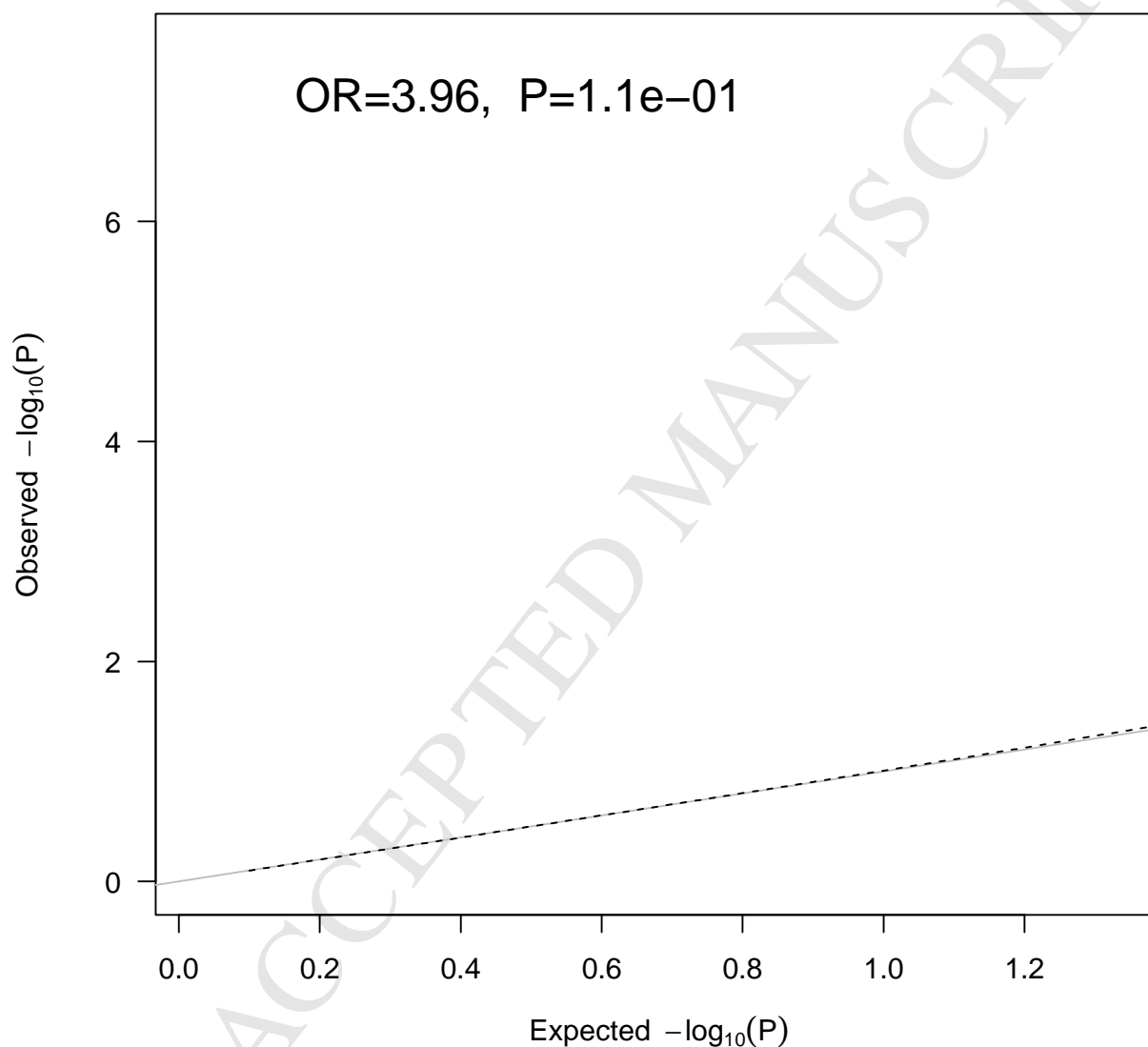
QQ plots of the autoimmune disease associated loci within the combined allergy meta-analysis as well as allergic sensitization and self-reported allergy separately. The numbers in the figures show enrichment Odds Ratio and P-value for enrichment.



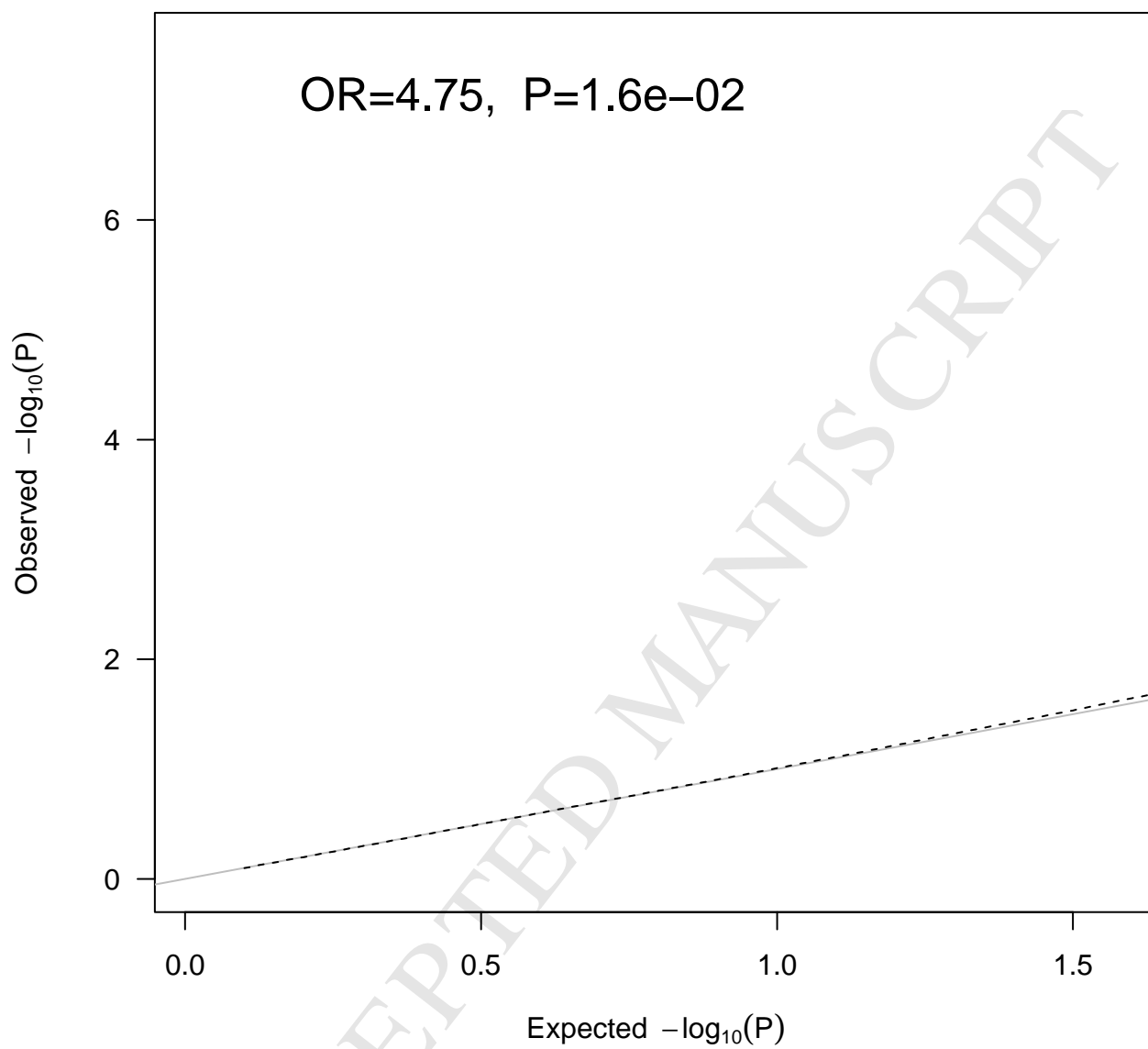
Supplementary Figure 6

Separate QQ plots of the autoimmune disease associated loci within the allergy meta-analysis with printed calculated enrichment Odds Ratio and P-value for enrichment. Only plotted for autoimmune diseases with at least 10 loci associated. Solid line reflects the P-value distribution under the null while the dashed is the distribution of all SNPs from the allergy meta-analysis.

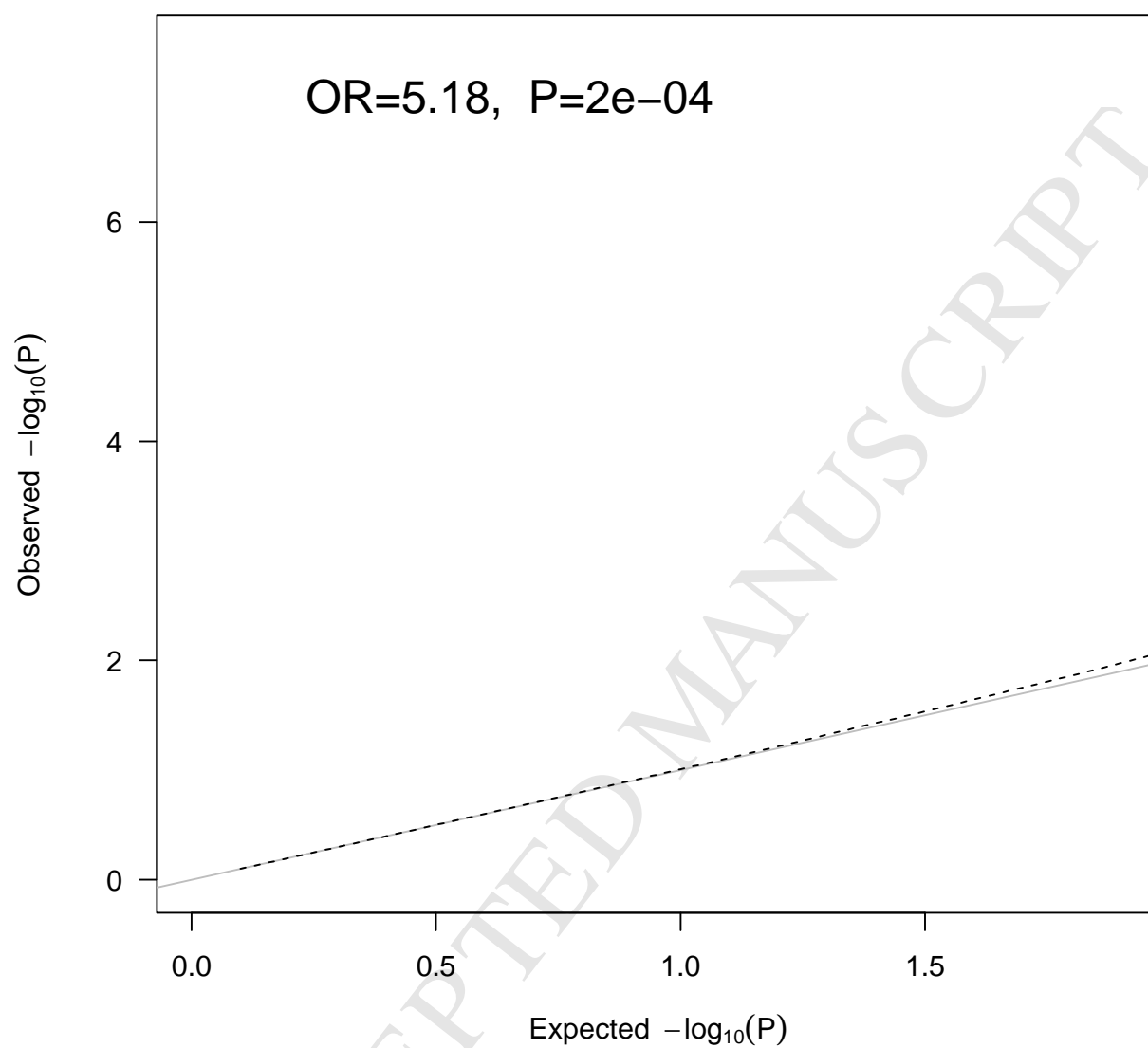
Ankylosing Spondylitis:

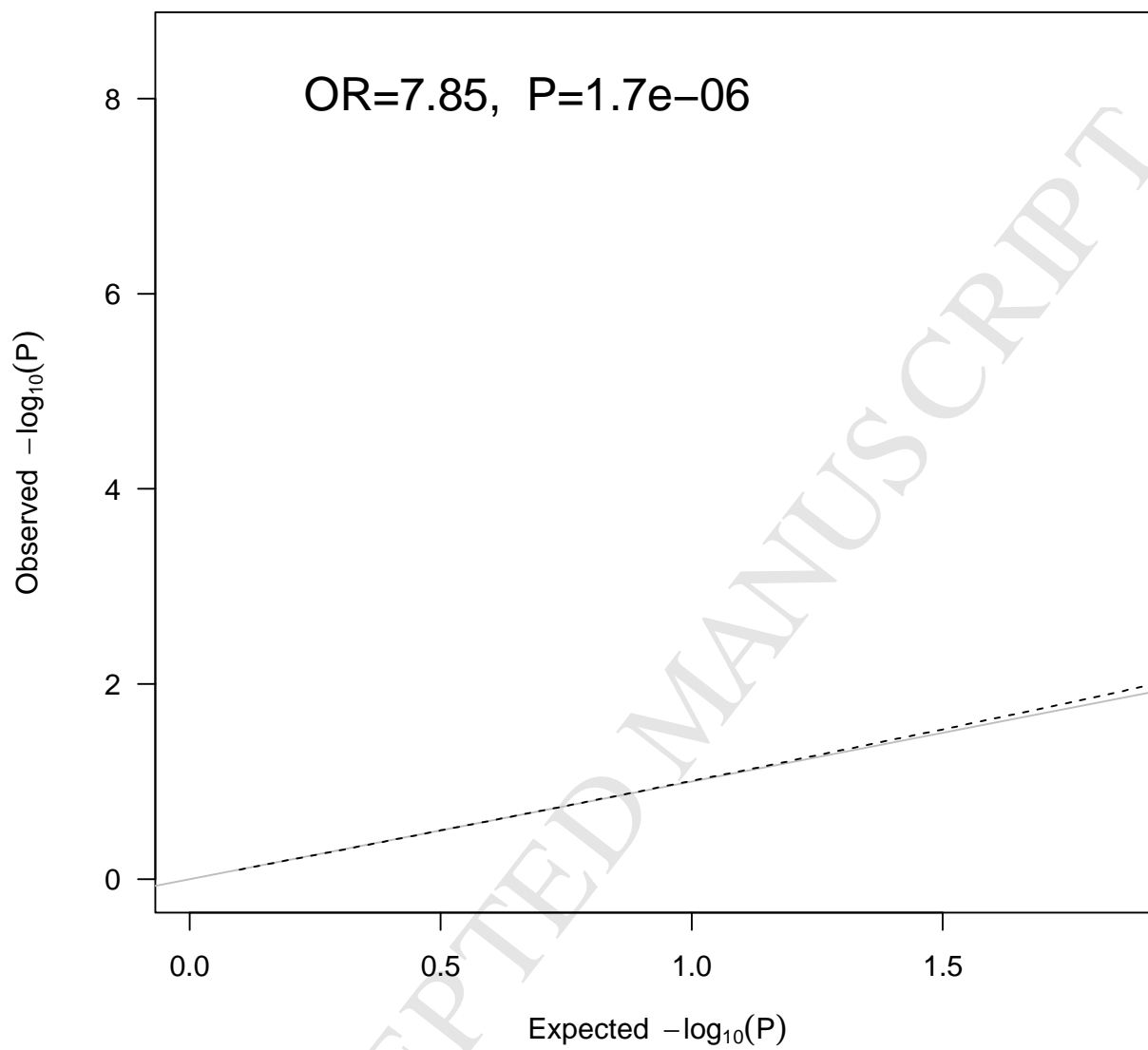


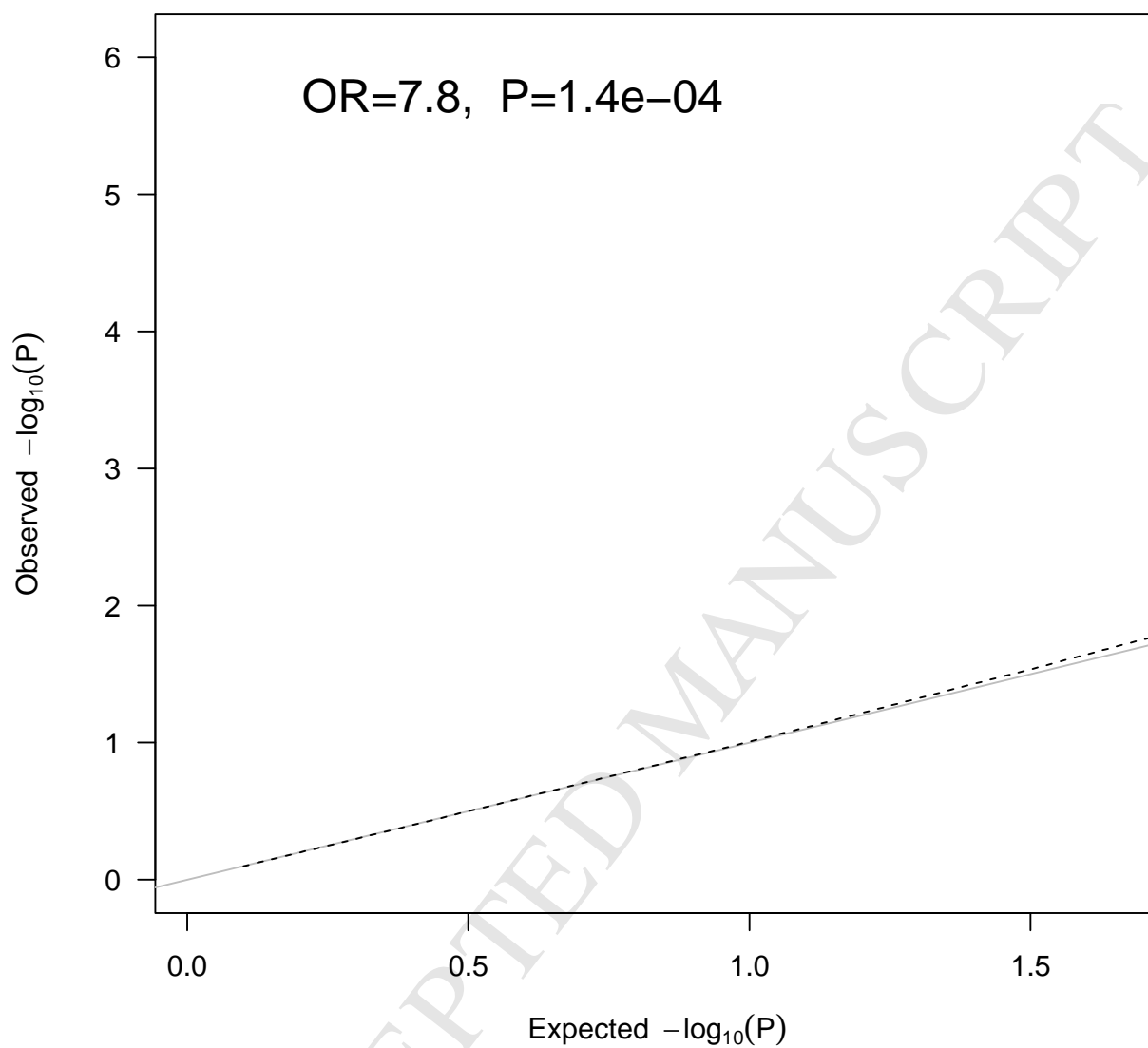
Psoriasis:

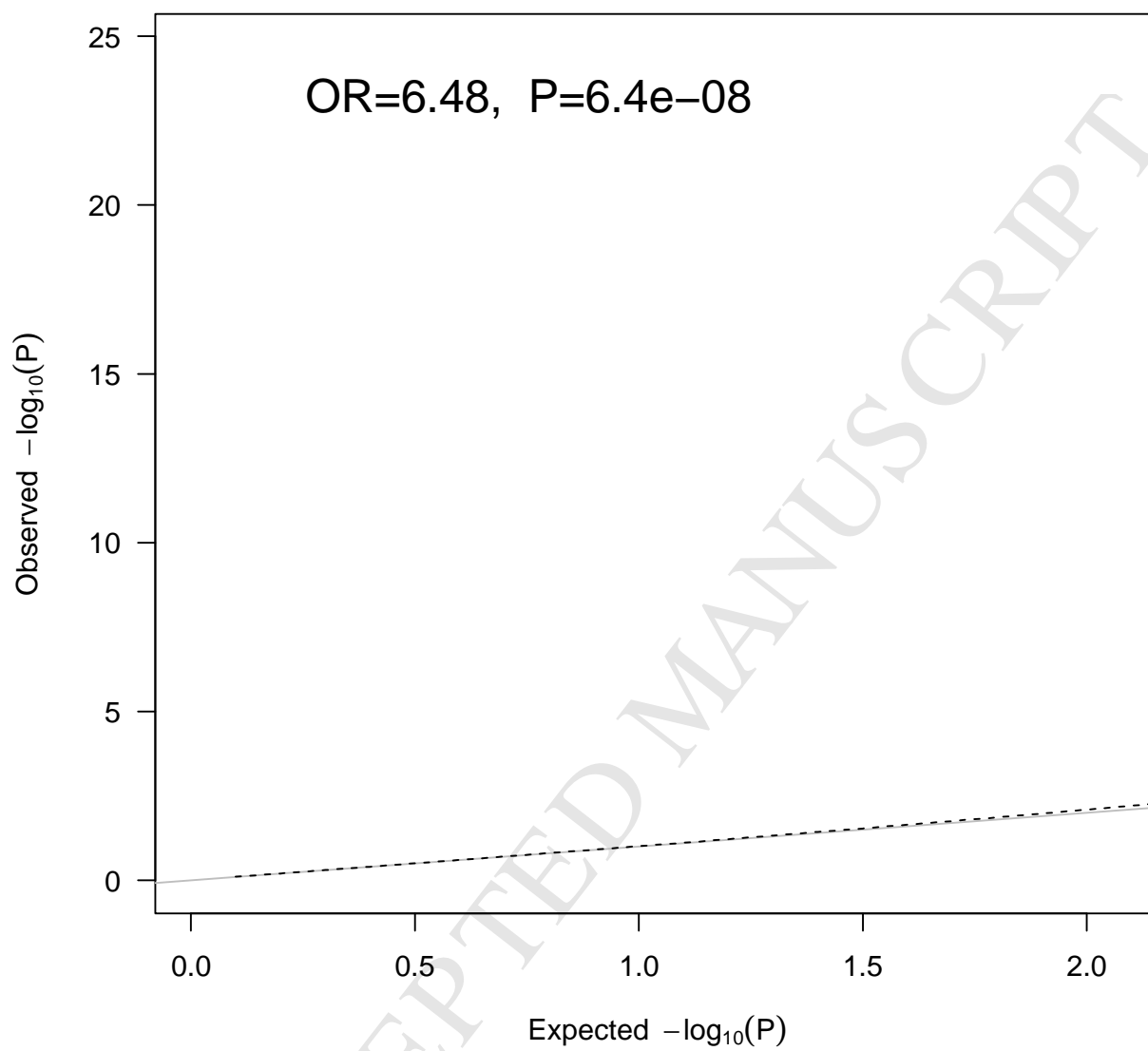


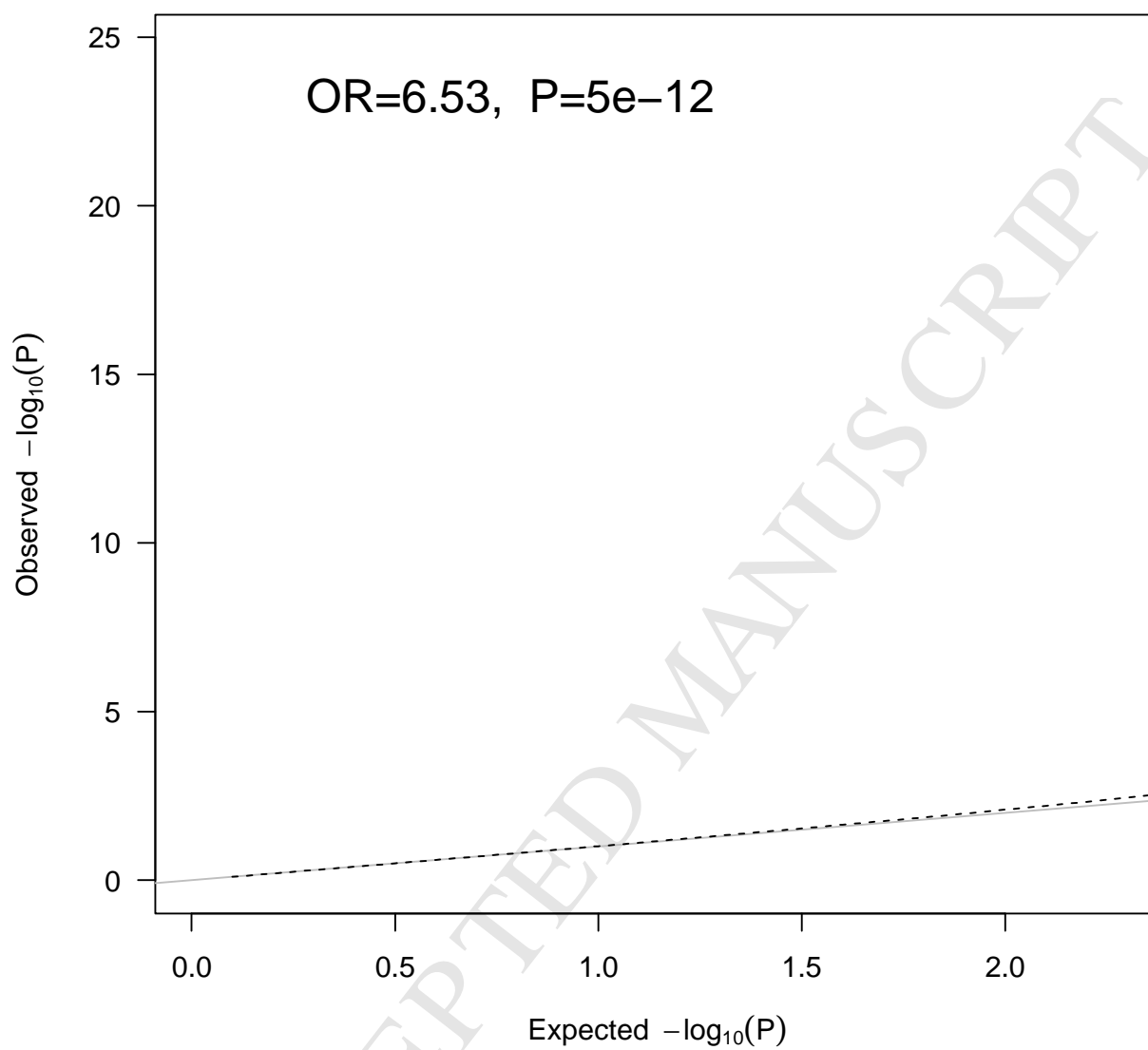
Arthirits:

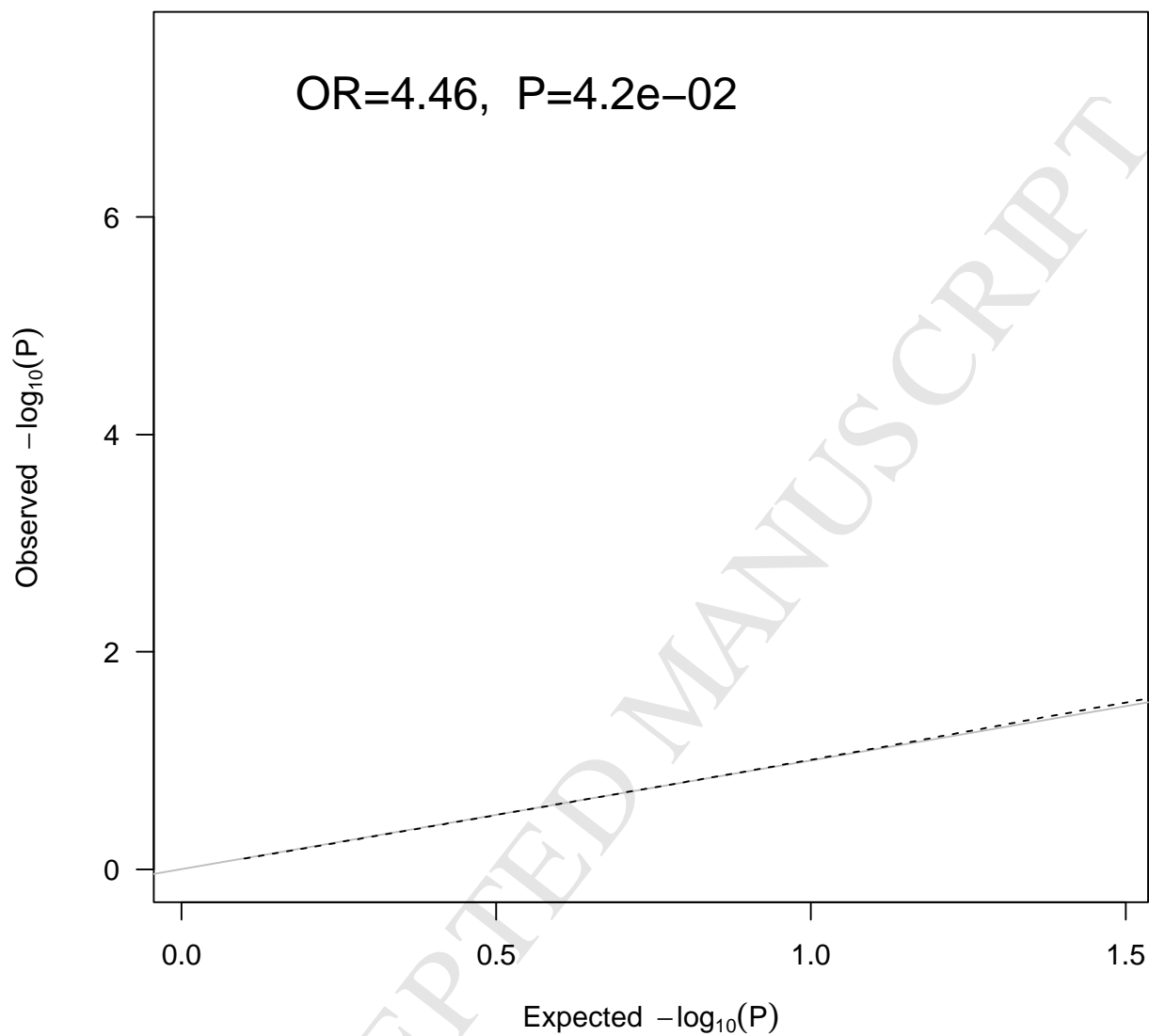


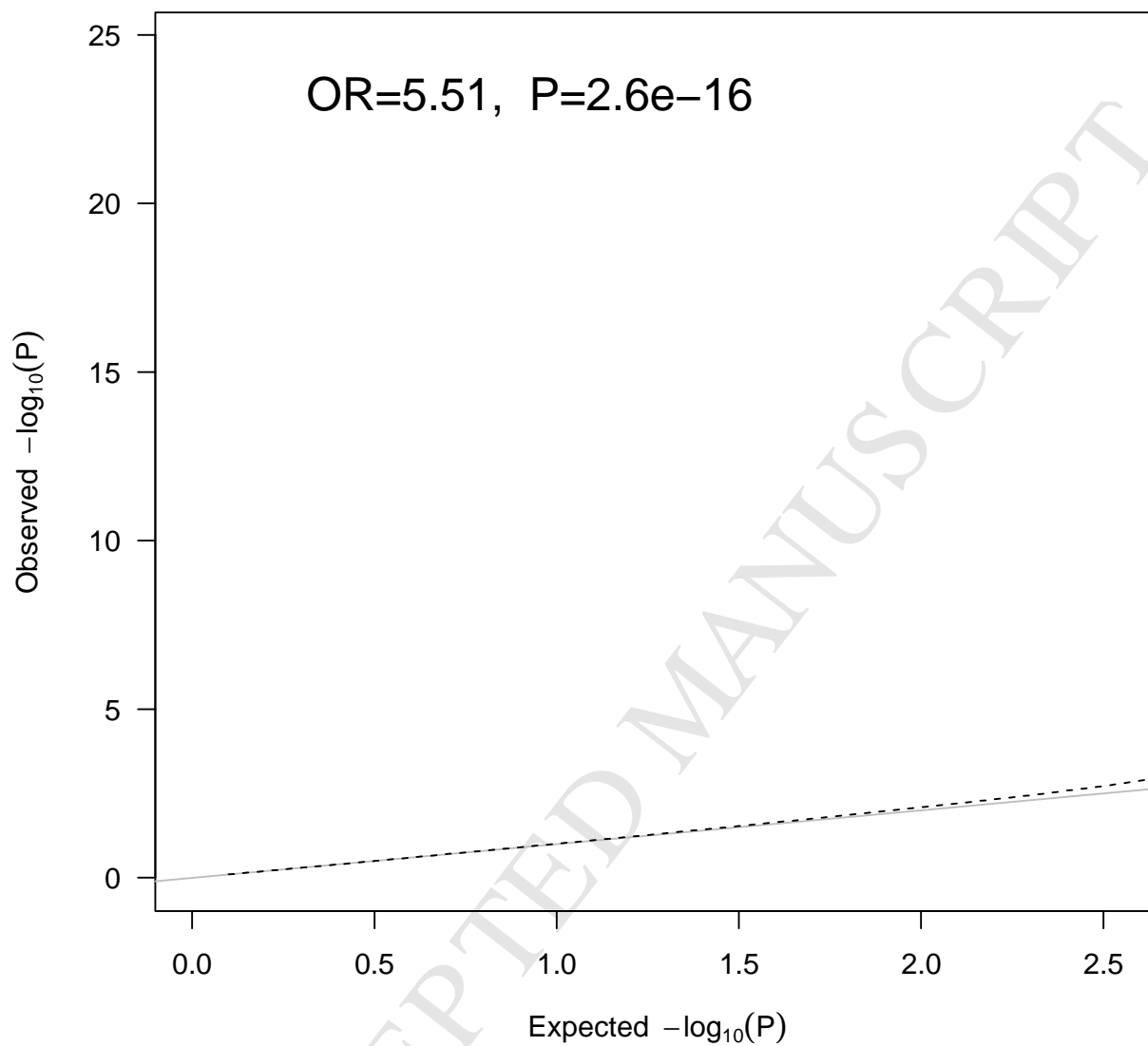
Celiac Disease:

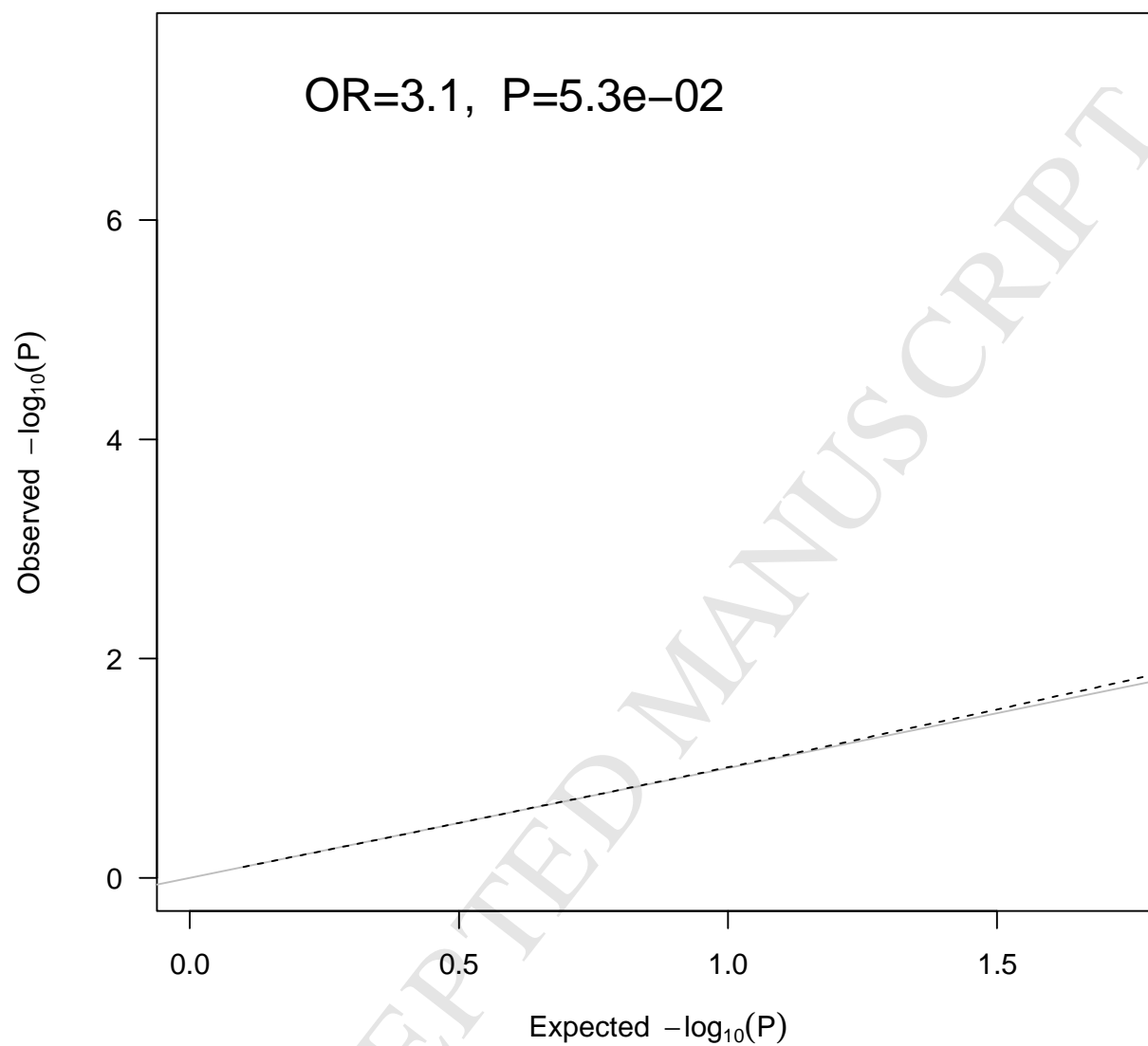
Primary Biliary Cirrhosis:

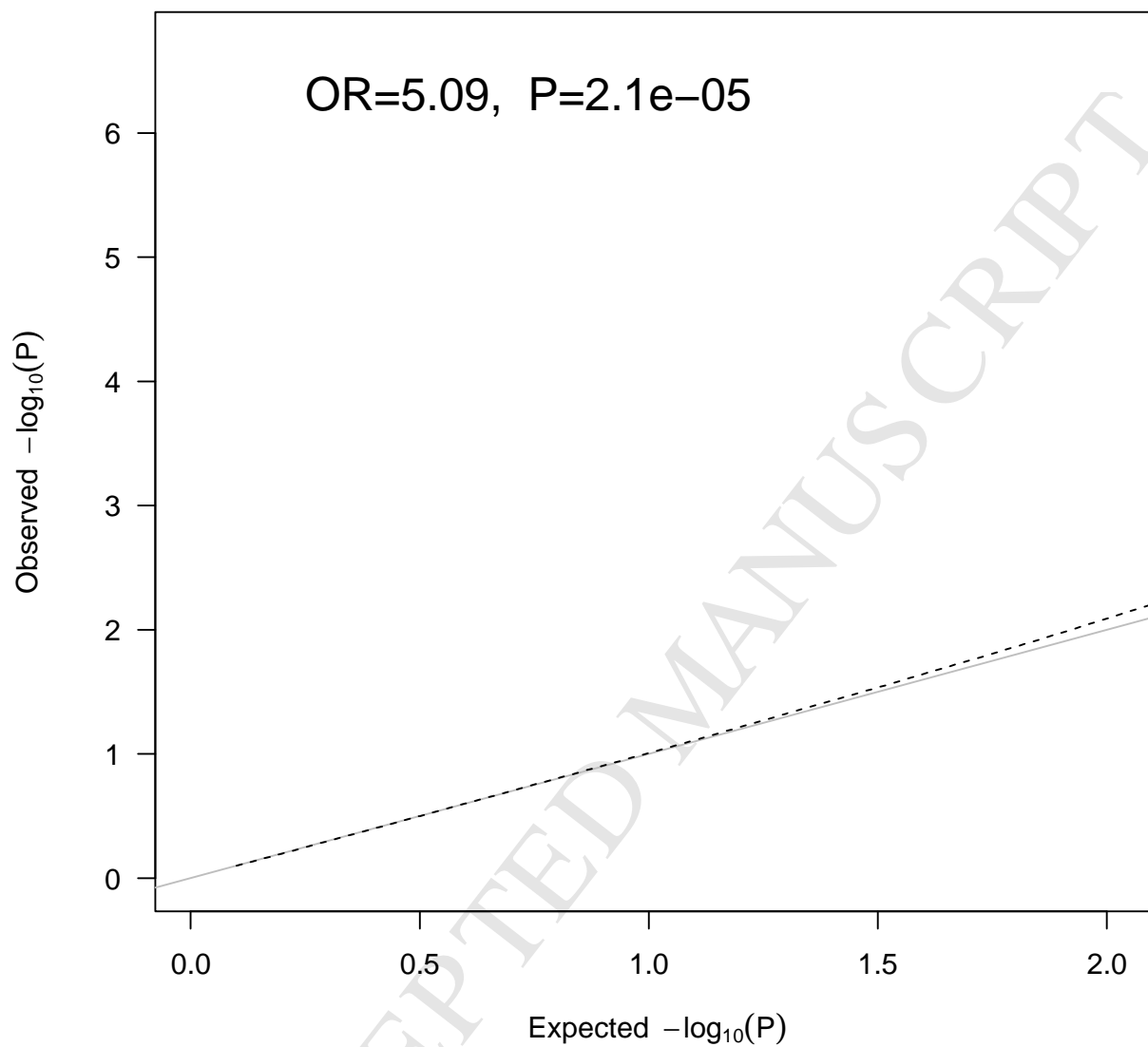
Ulcerative colitis:

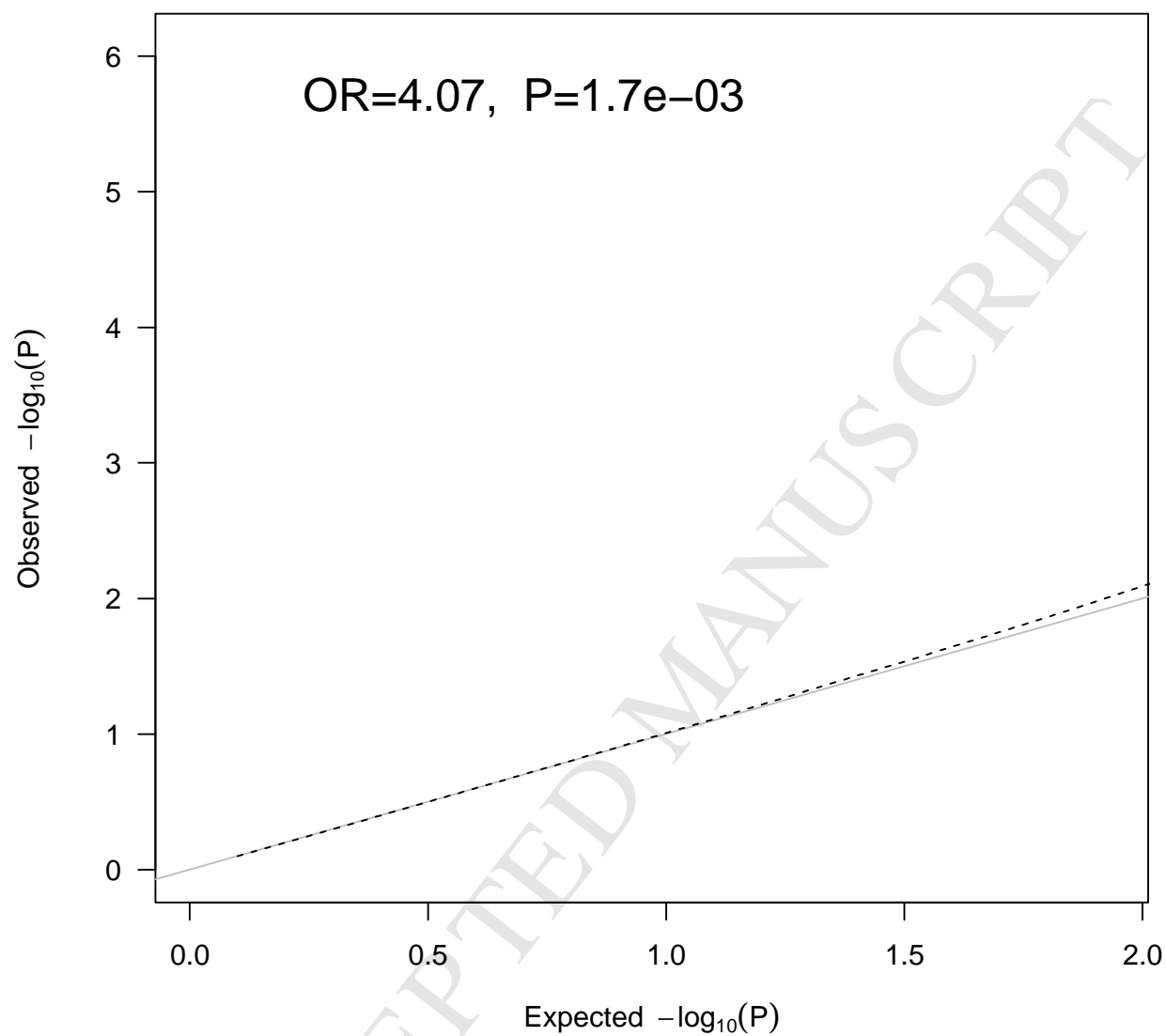
Crohn's Disease:

Graves Disease:

Inflammatory Bowel Disease:

Systemic Lupus Erythematosus:

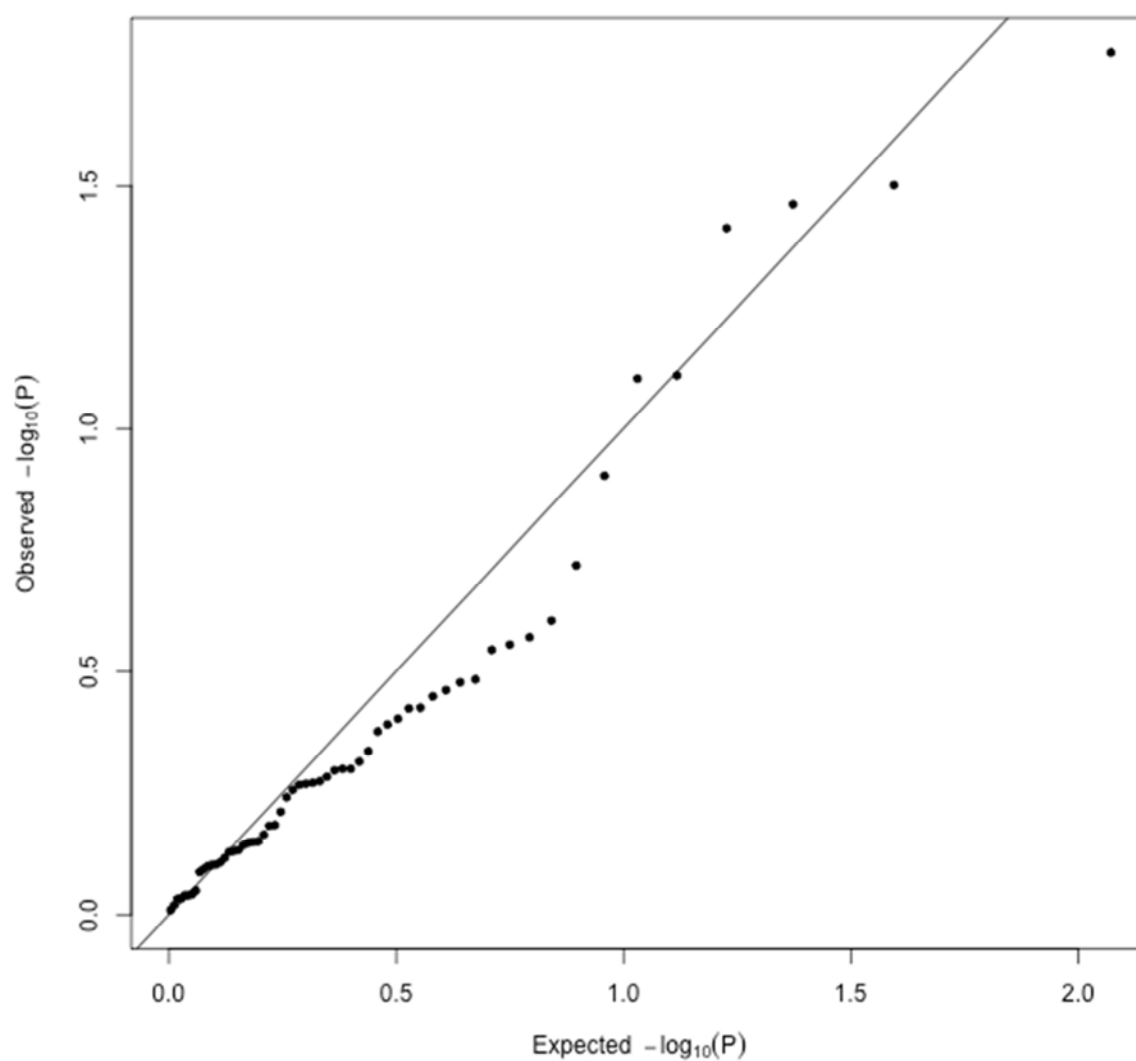
Multiple Sclerosis:

Type-1 Diabetes:

Supplementary Figure 7

QQ plot of 57 Migraine loci extracted from the allergy meta-analysis results.

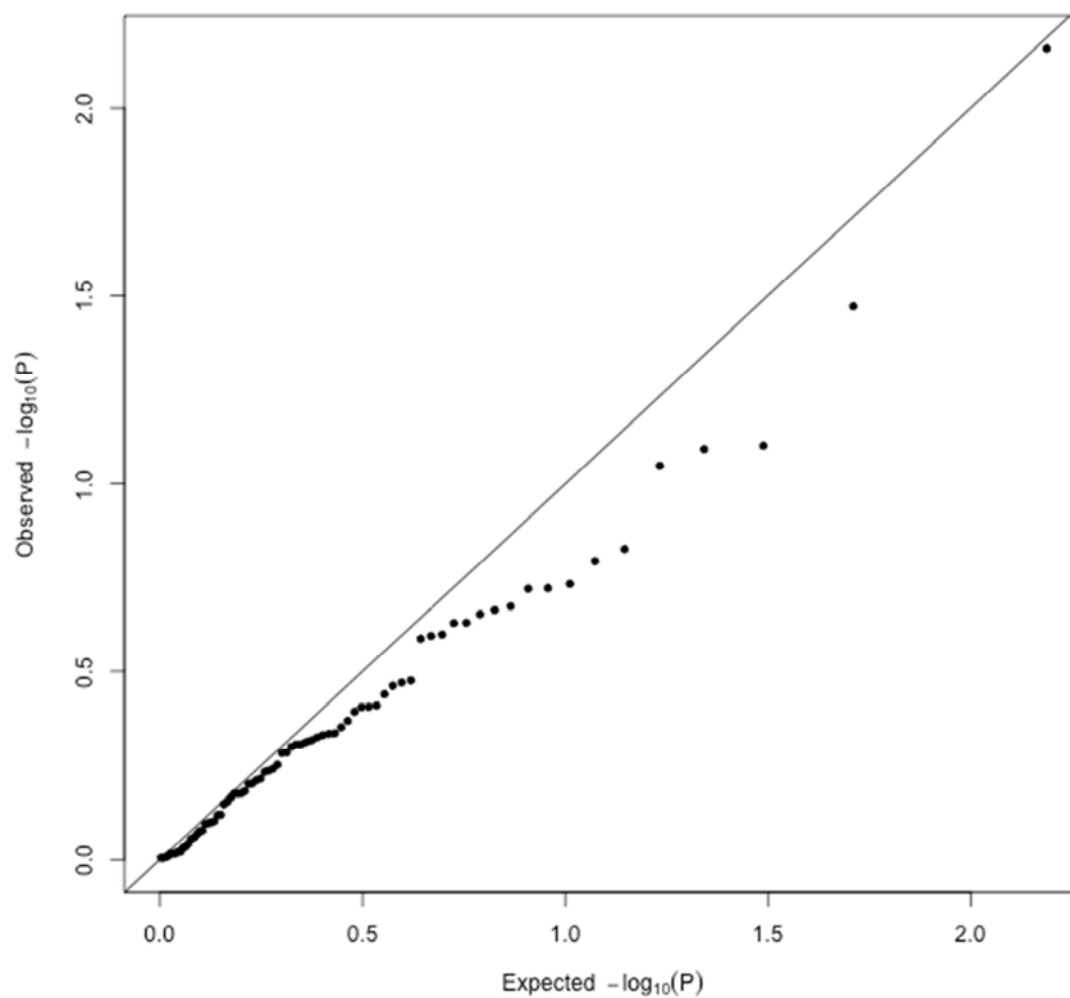
Migraine:



Supplementary Figure 8

QQ plot of 77 loci associated with the combined phenotype of schizophrenia and bipolar disorder extracted from the allergy meta-analysis results.

Bipolar disorder and schizophrenia:



Supplementary Figure 9

Principal component plot of GWAS Catalogue SNPs' perturbation of gene networks, based on the DEPICT tool, PC1 vs PC3

(PLEASE SEE SEPARATE FILE)

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Supplementary Figure 10

Principal component plot of GWAS Catalogue SNPs' perturbation of gene networks, based on the DEPICT tool, PC1 vs PC2, all trait names.

(PLEASE SEE SEPARATE FILE)

Supplementary Figure 11

Allergy related loci and their resemblance to autoimmune disease and other types of disease loci were assessed by principal component analysis by analyzing the tendency of each trait-locus to fall in DHS sites in specific cell lines. This plot shows PC1 vs. PC2 and has the outlier “lipid metabolism phenotypes” omitted, and only names for autoimmune diseases, asthma and allergy are printed. The blue area represents the shared minimal ellipsoid area of immune-mediated diseases.

(PLEASE SEE SEPARATE FILE)

Supplementary Figure 12

Allergy related loci and their resemblance to autoimmune disease and other types of disease loci were assessed by principal component analysis by analyzing the tendency of each trait-locus to fall in DHS sites in specific cell lines. This plot shows PC1 vs. PC2 for the full data set.

(PLEASE SEE SEPARATE FILE)

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Supplementary Figure 13

Allergy related loci and their resemblance to autoimmune disease and other types of disease loci were assessed by principal component analysis by analyzing the tendency of each trait-locus to fall in DHS sites in specific cell lines. This plot shows PC1 vs. PC2 overlayed with cell- and tissue type loadings.

(PLEASE SEE SEPARATE FILE)

Supplementary Figure 14

Hierarchical clustering of all NHRGI GWAS catalog diseases' associated SNPs' tendency to fall within DHS sites for immune cell types within the Encode data set.

(PLEASE SEE SEPARATE FILE)

Supplementary Figure 15

Enrichment of DHS sites in SNPs associated to allergy and Crohn's disease.

X-axis denominates all SNPs associated to the given trait at $-\log_{10}(p) \leq x$, and y gives the enrichment of DHS sites for a given cell/tissue-type for those SNPs, as compared to all SNPs ($x=0$). Immune cells are indicated in blue.

(PLEASE SEE SEPARATE FILE)

Supplementary Figure 16

Enrichment of SNPs falling in FANTOM enhancers

(PLEASE SEE SEPARATE FILE)

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Supplementary Figure 17

PCA plot of DEPICT pathway perturbation analysis, showing names for all gene sets.

(PLEASE SEE SEPARATE FILE)

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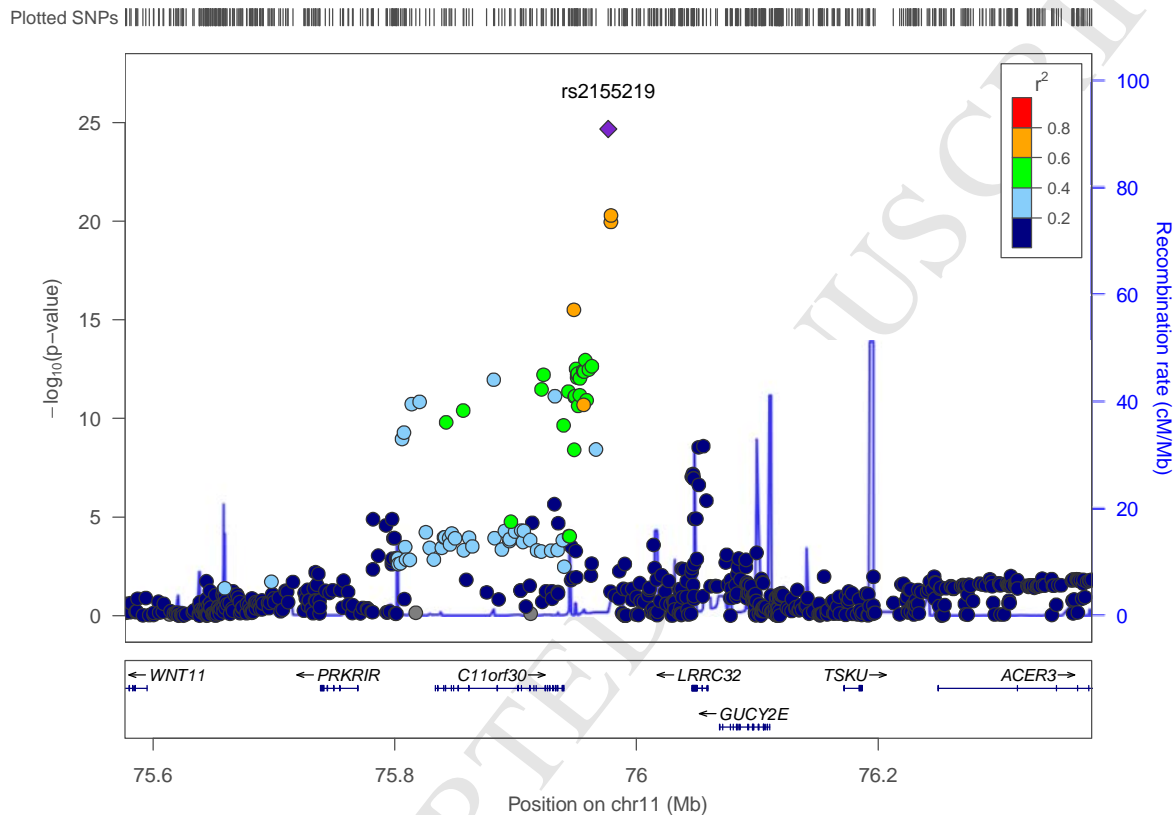
Supplementary Figure 18

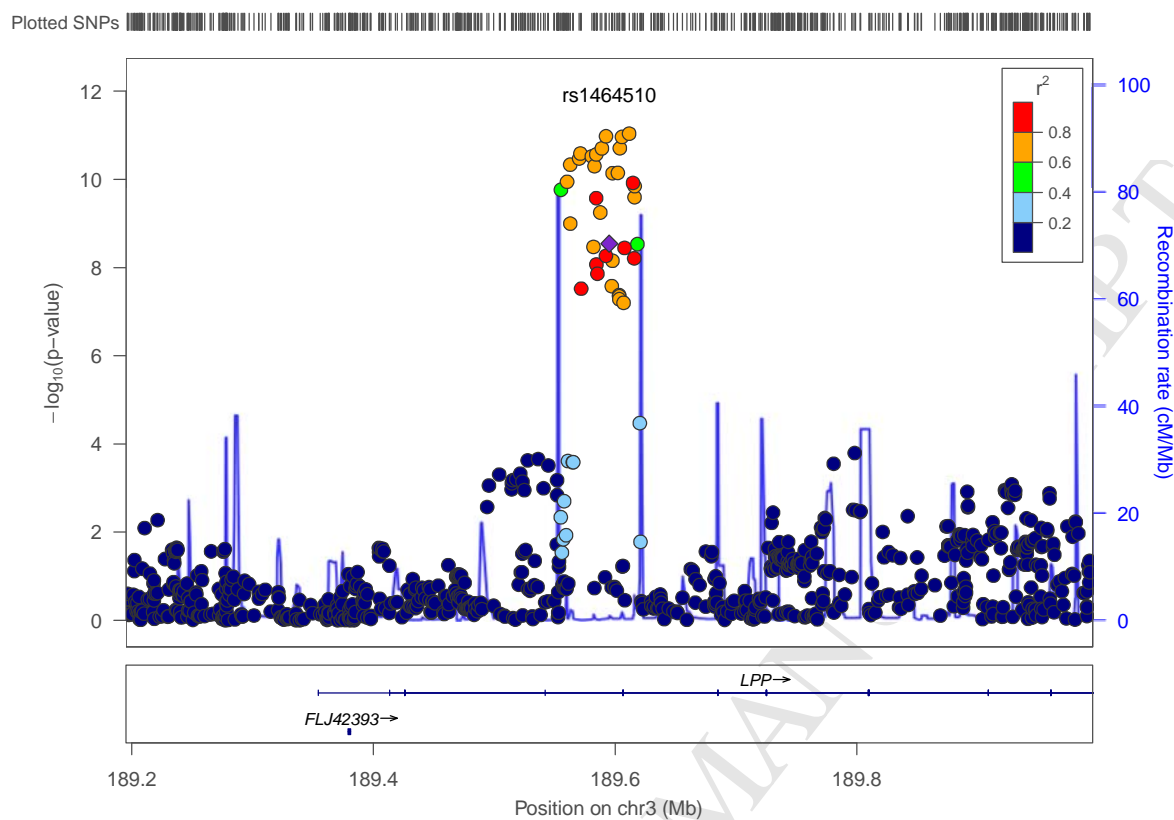
Enrichment of shared loci with ENCODE ChIP-seq based transcription factor binding sites. Green line indicates $FDR < 0.05$. Transcription factors in blue have $FDR < 0.05$ and enrichment ≥ 3 .

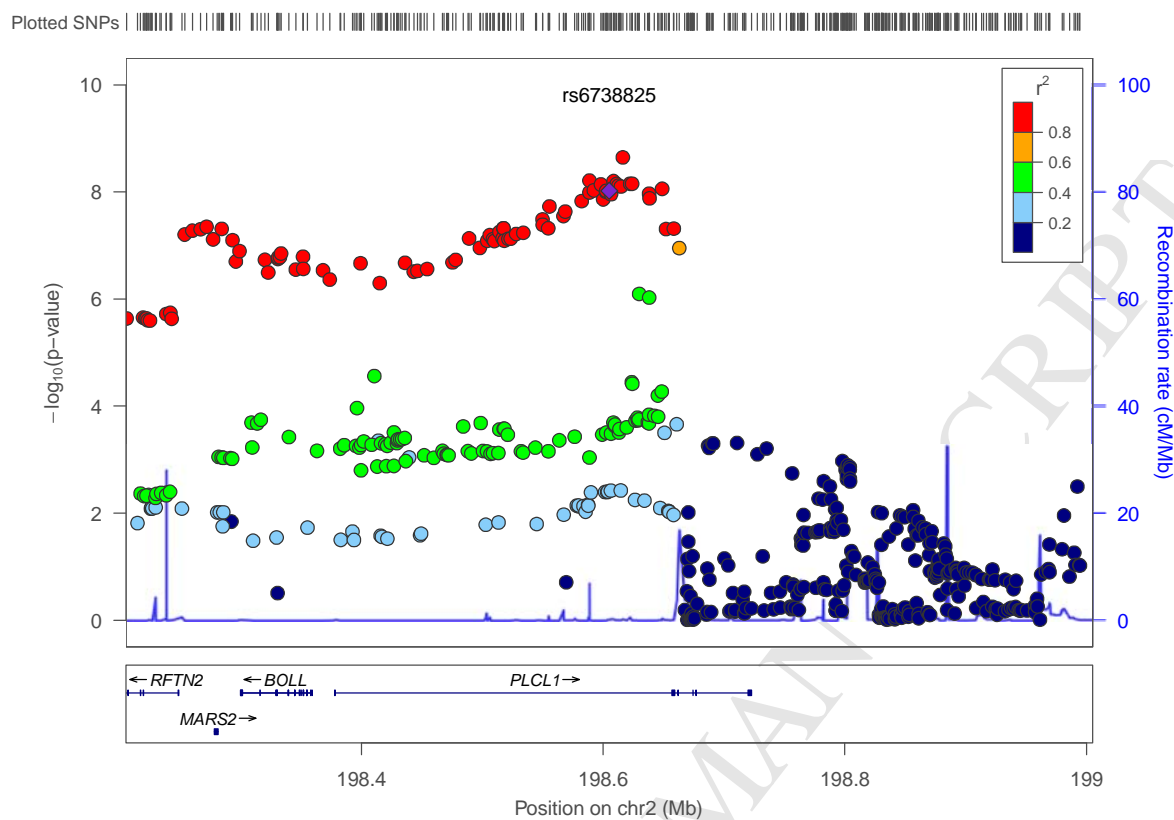
(PLEASE SEE SEPARATE FILE)

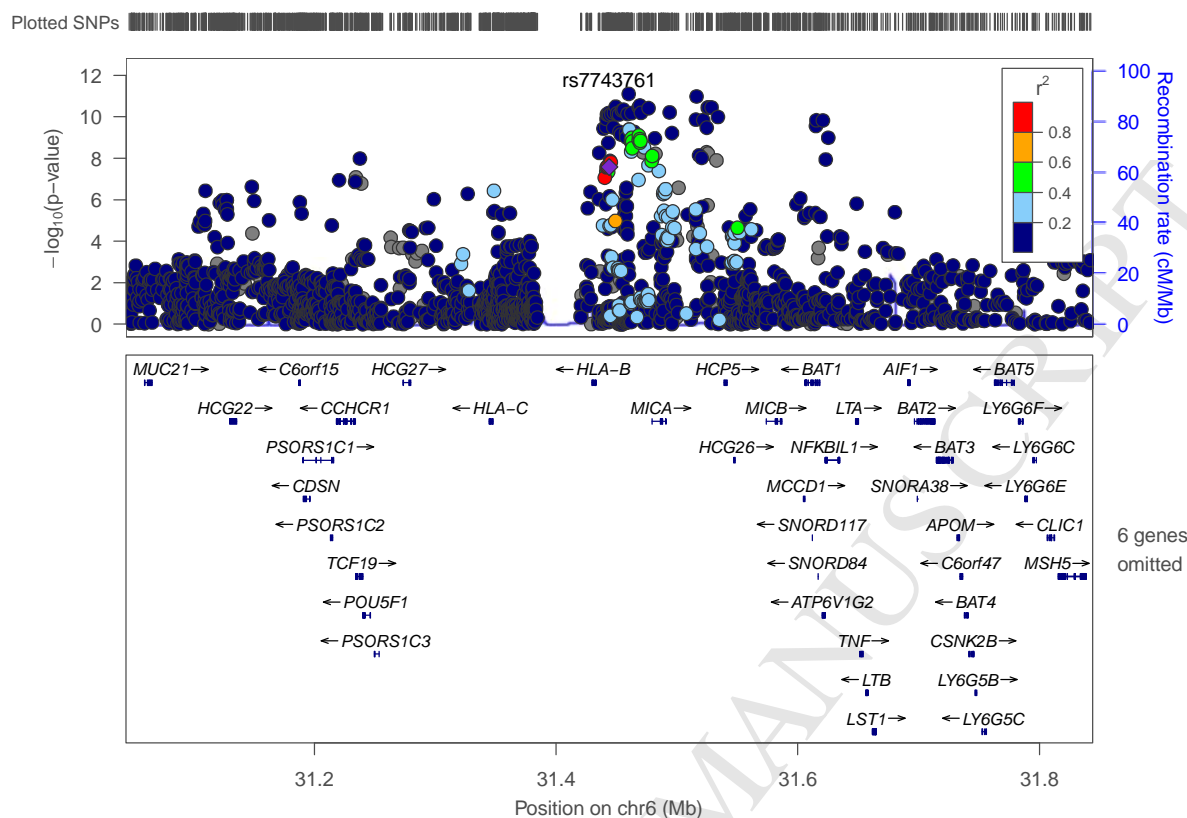
Supplementary Figure 19

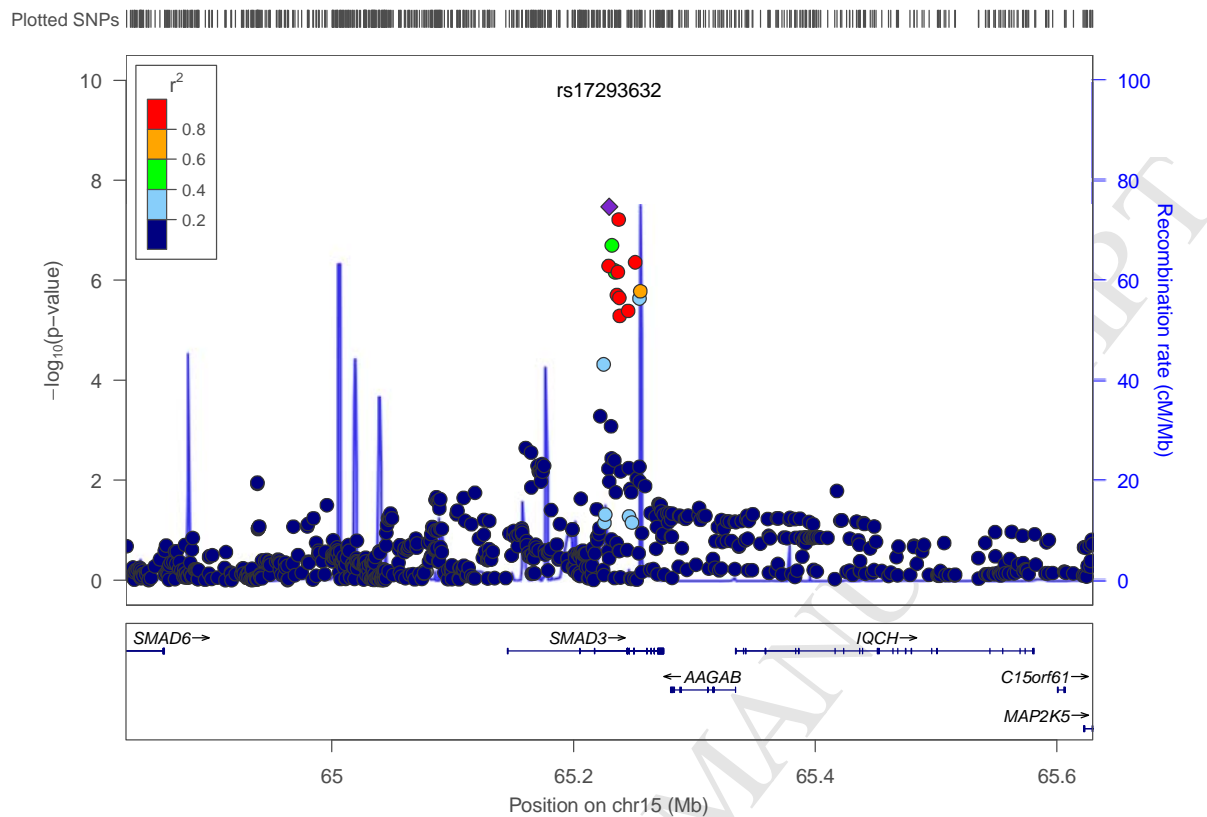
LocusZoom plots of the autoimmune disease associated loci within the allergy meta-analysis. Each dot represents the association between allergy and the particular SNP. The purple SNP is the index SNP for which the remaining SNPs are colored with respect to the r^2 value to the index SNP. The position on the Y-axis represents the P-value (left handside Y-axis). The blue line represents recombination rates (right handside Y-axis)

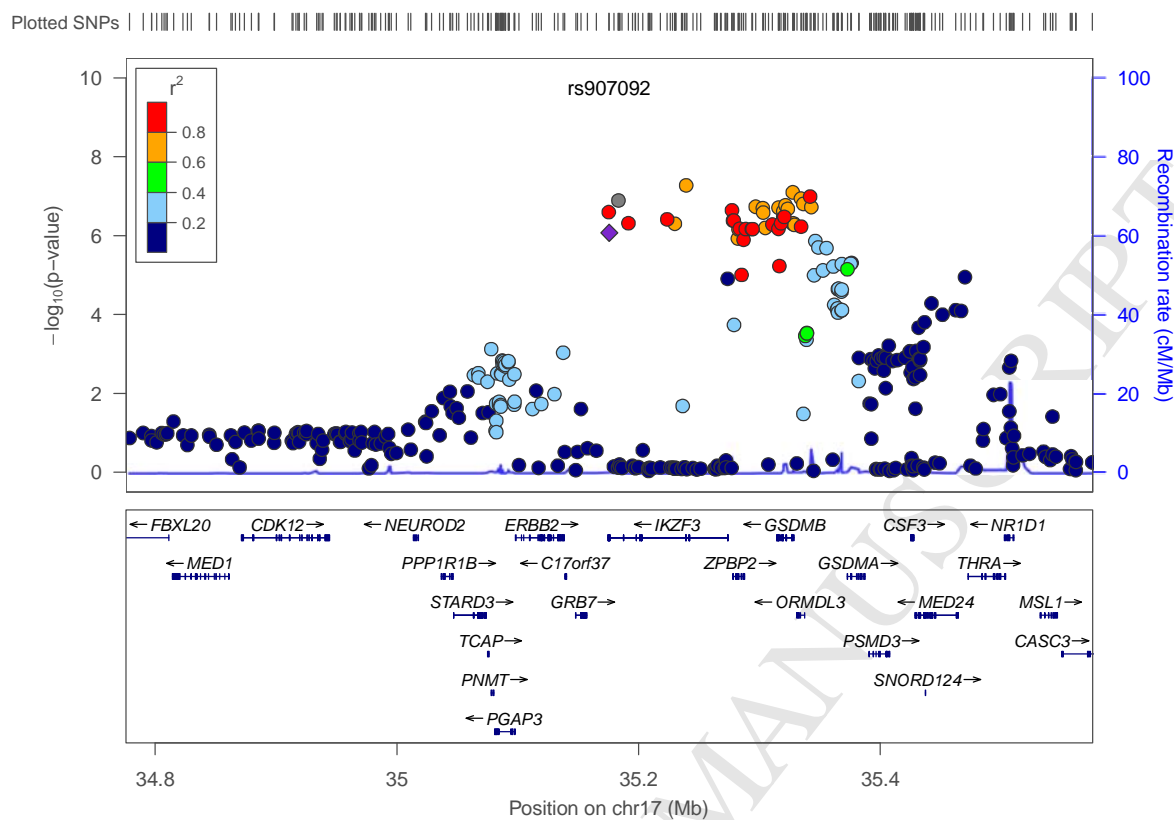


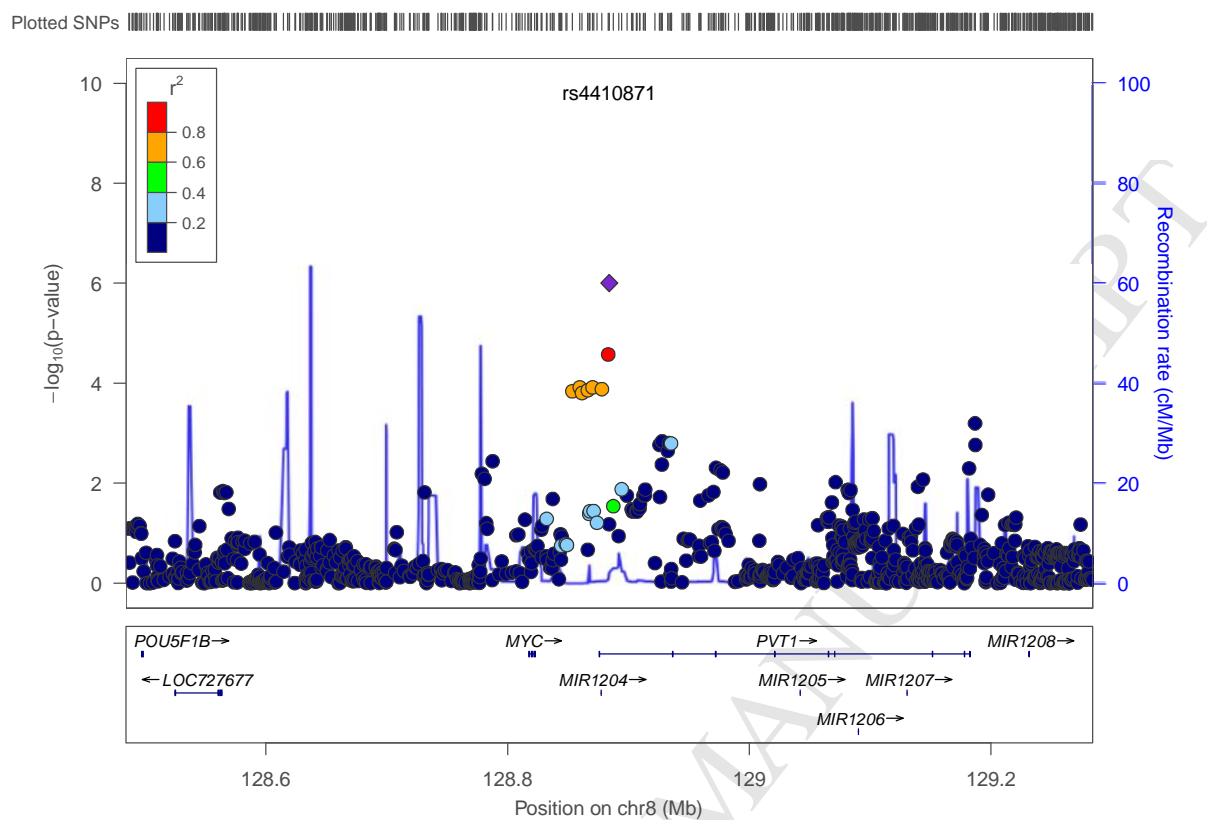


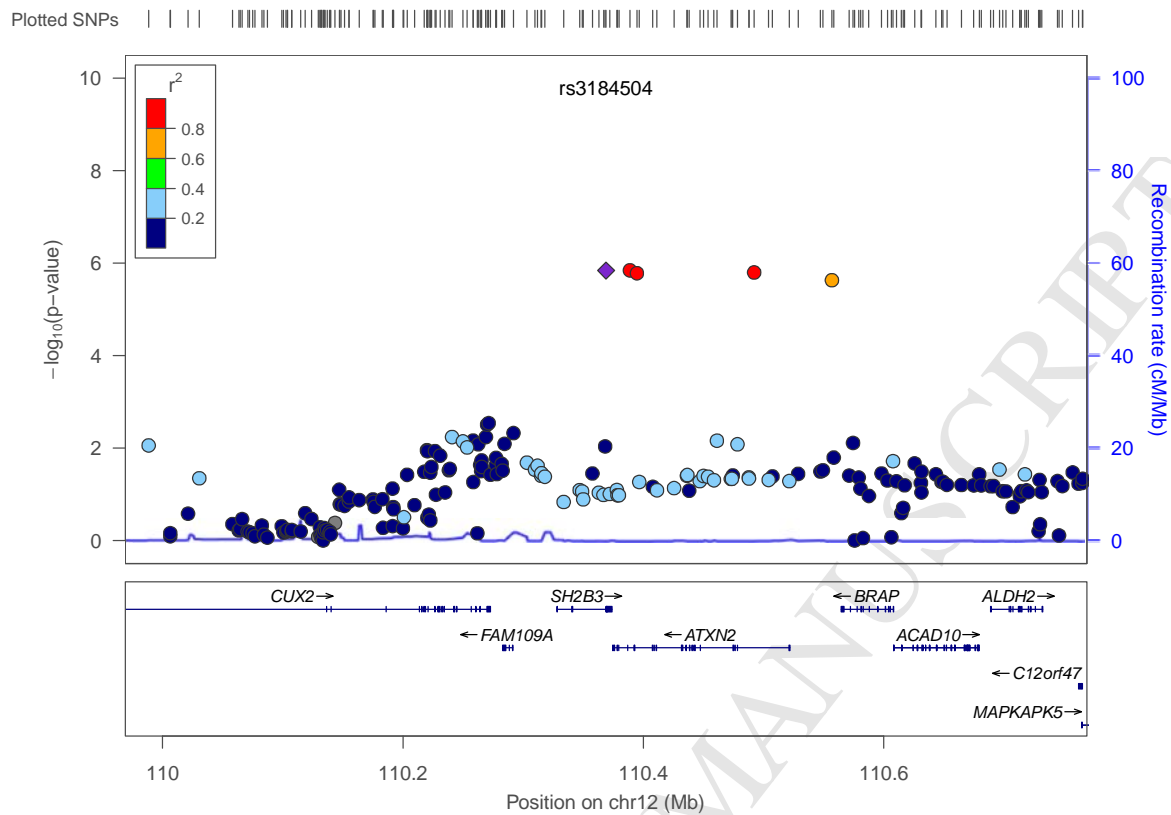


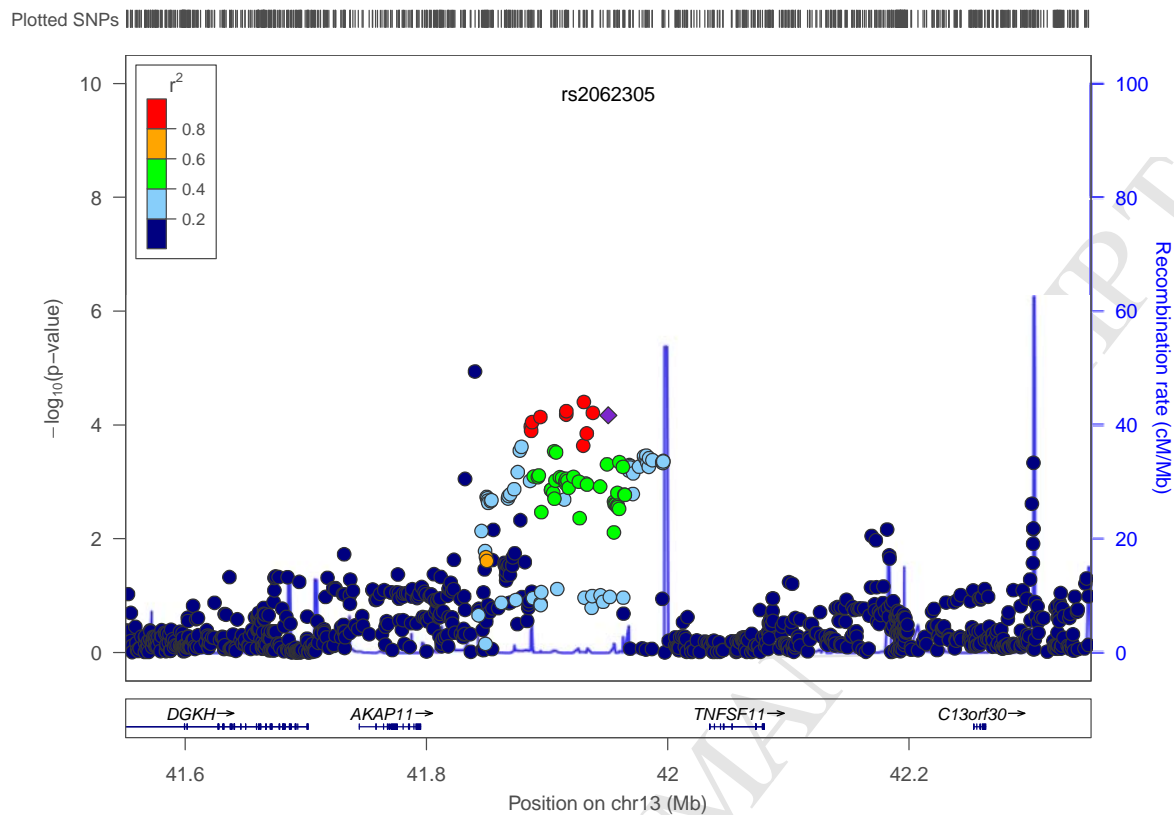


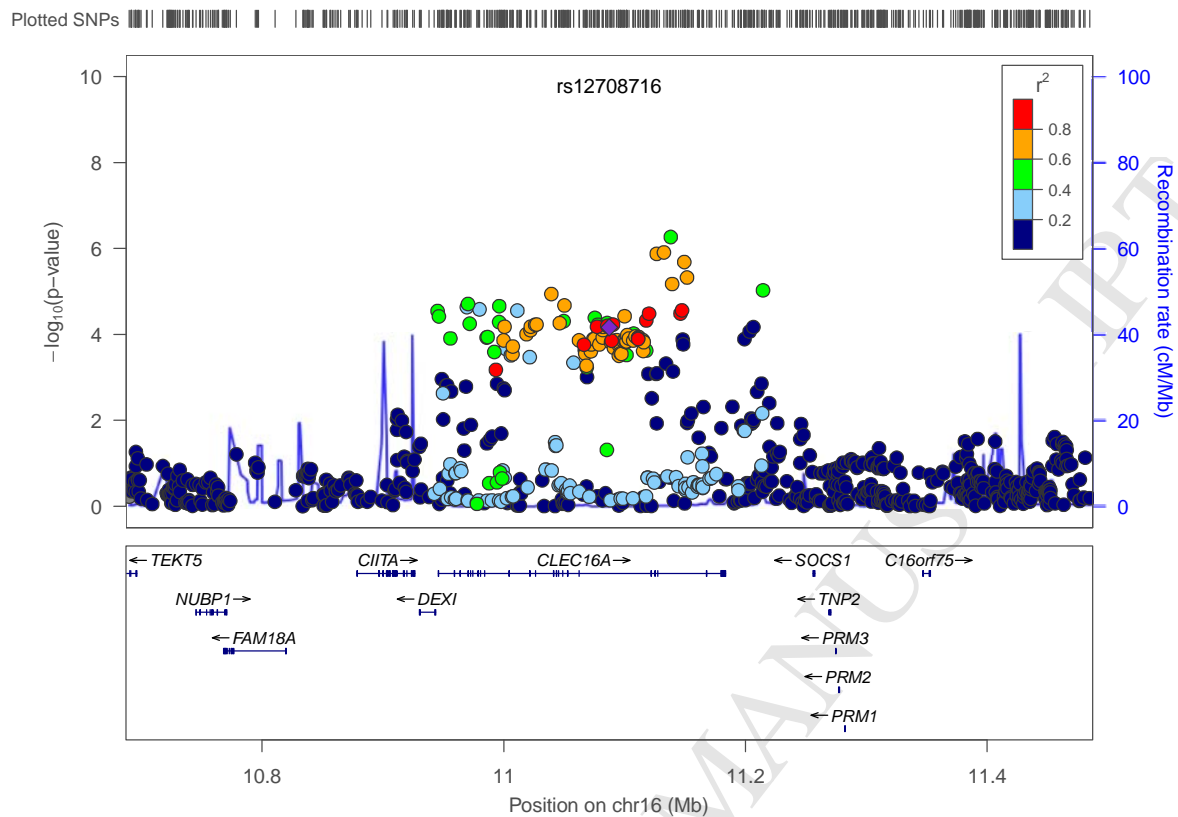


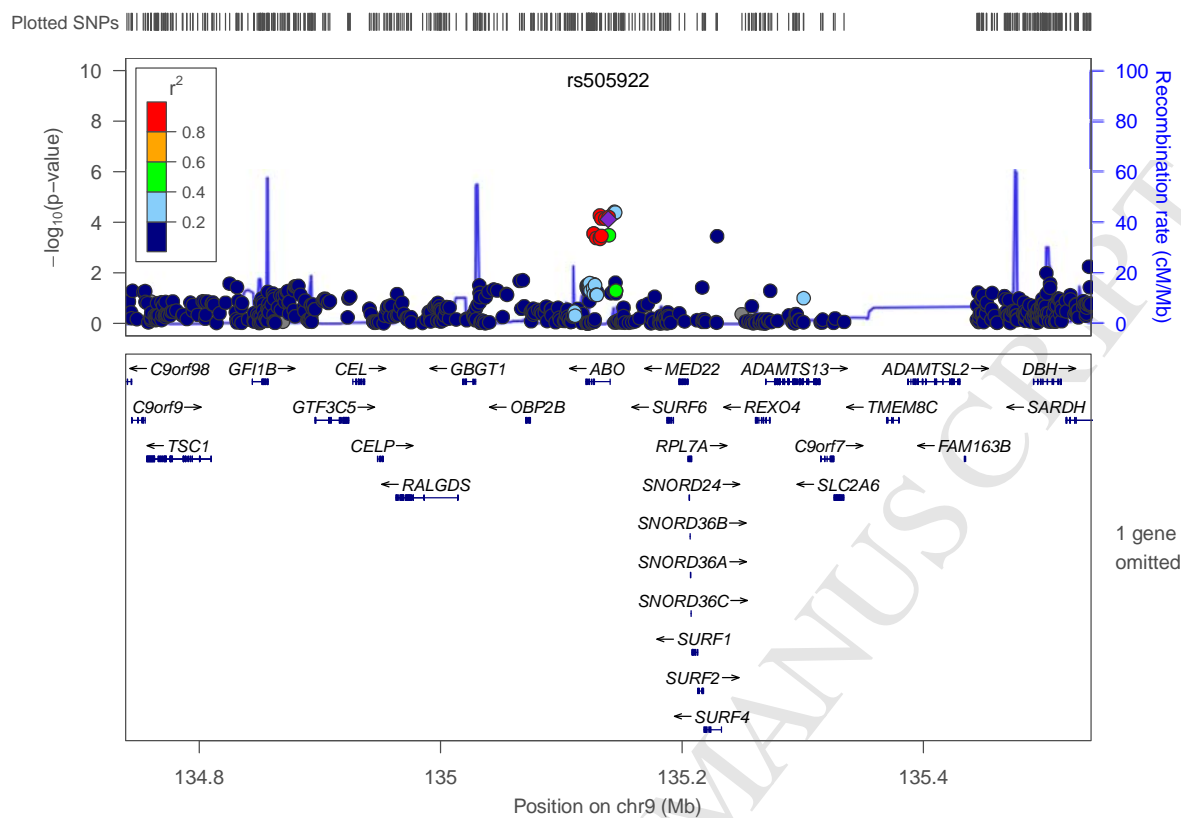


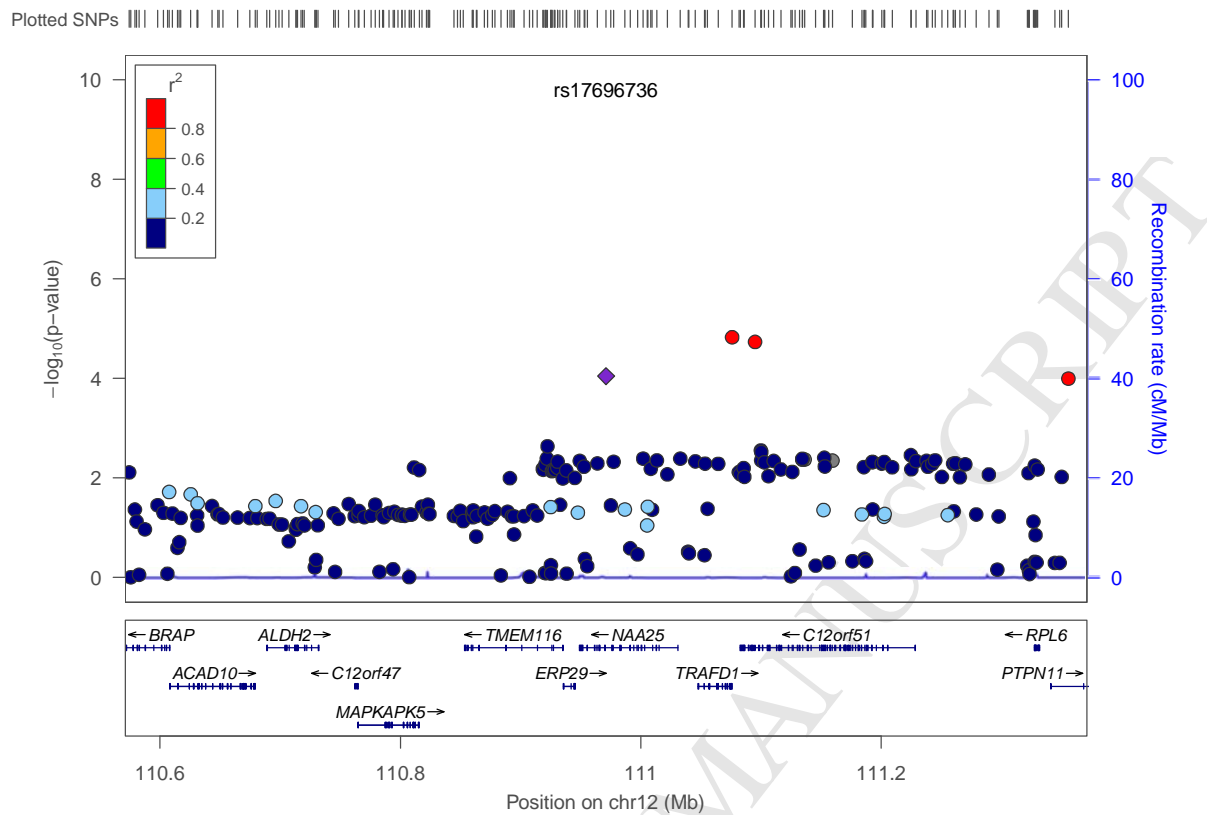


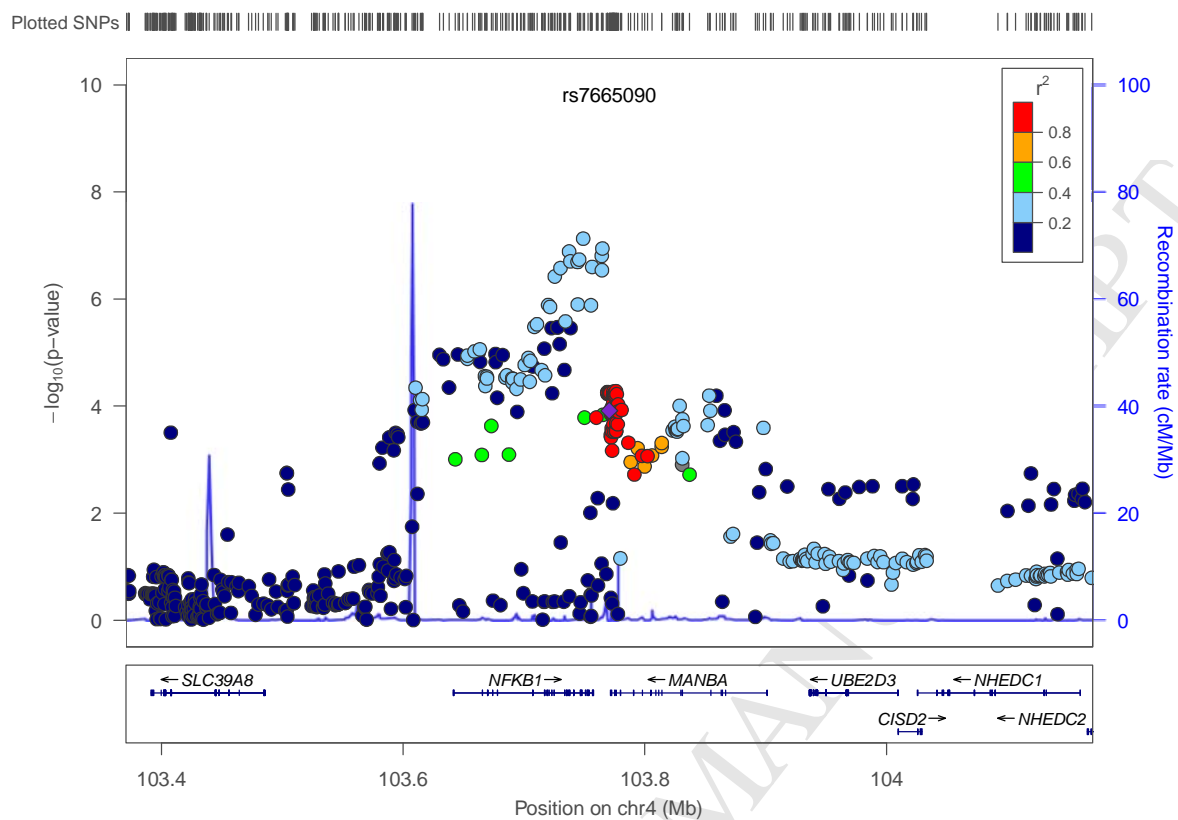


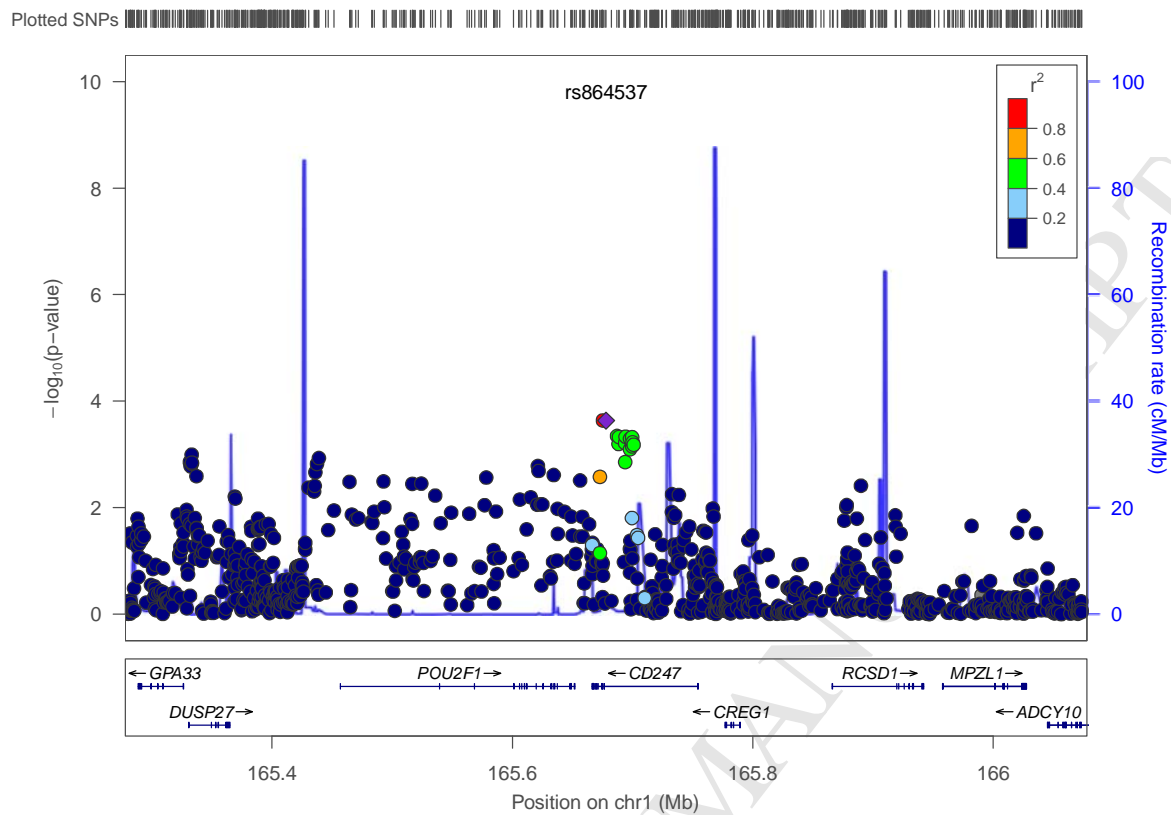


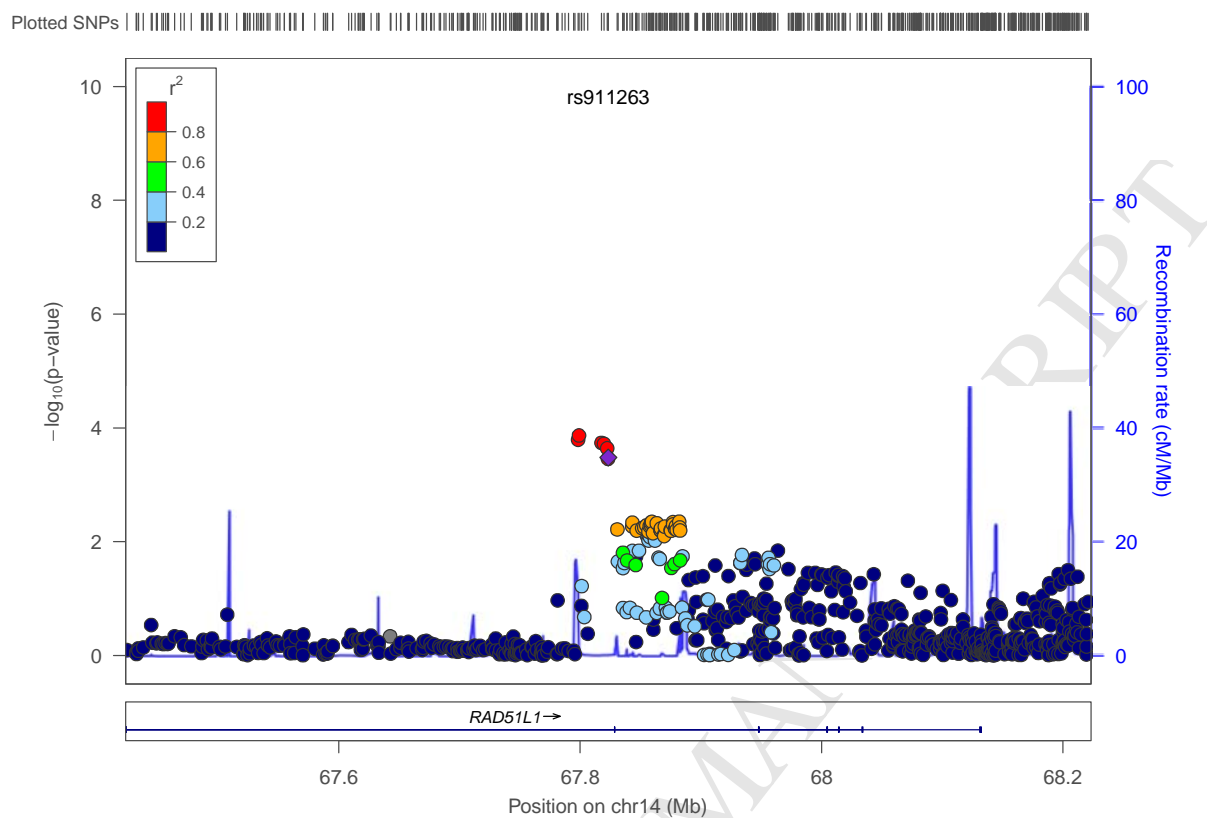


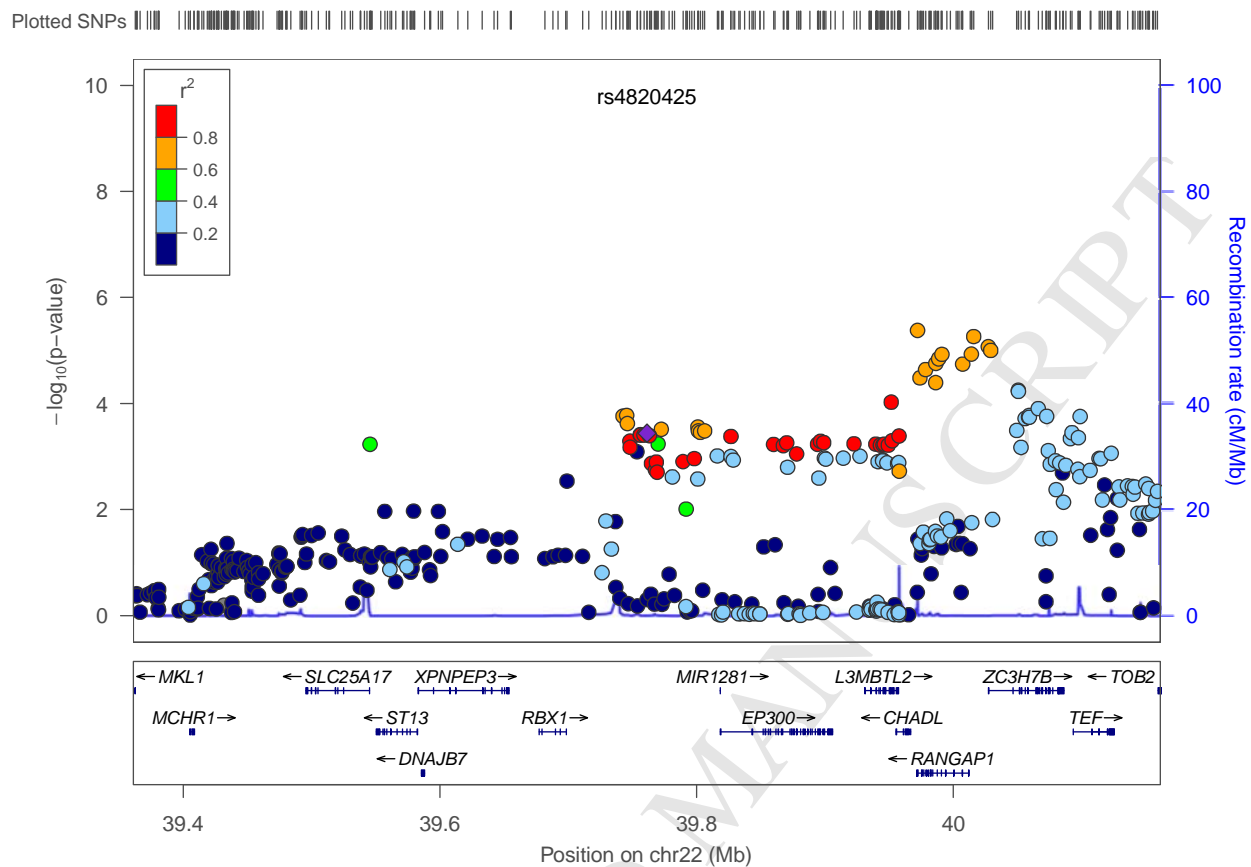


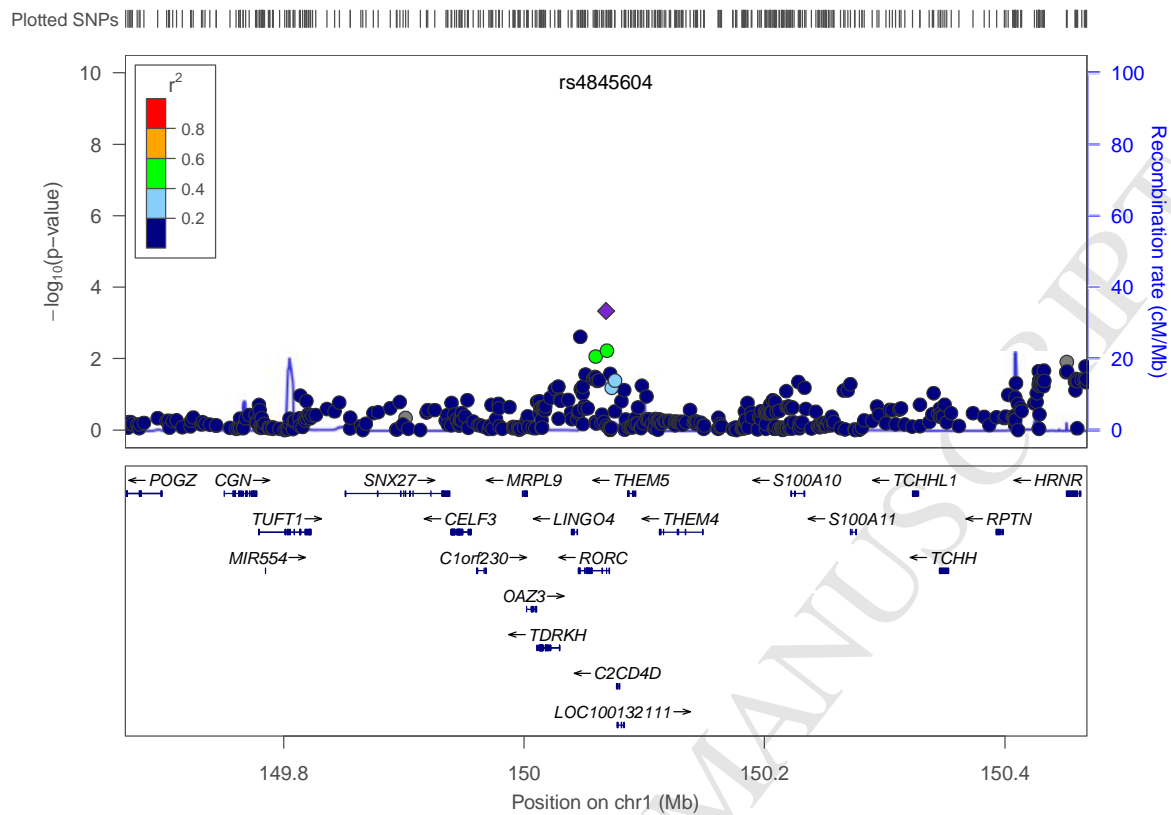


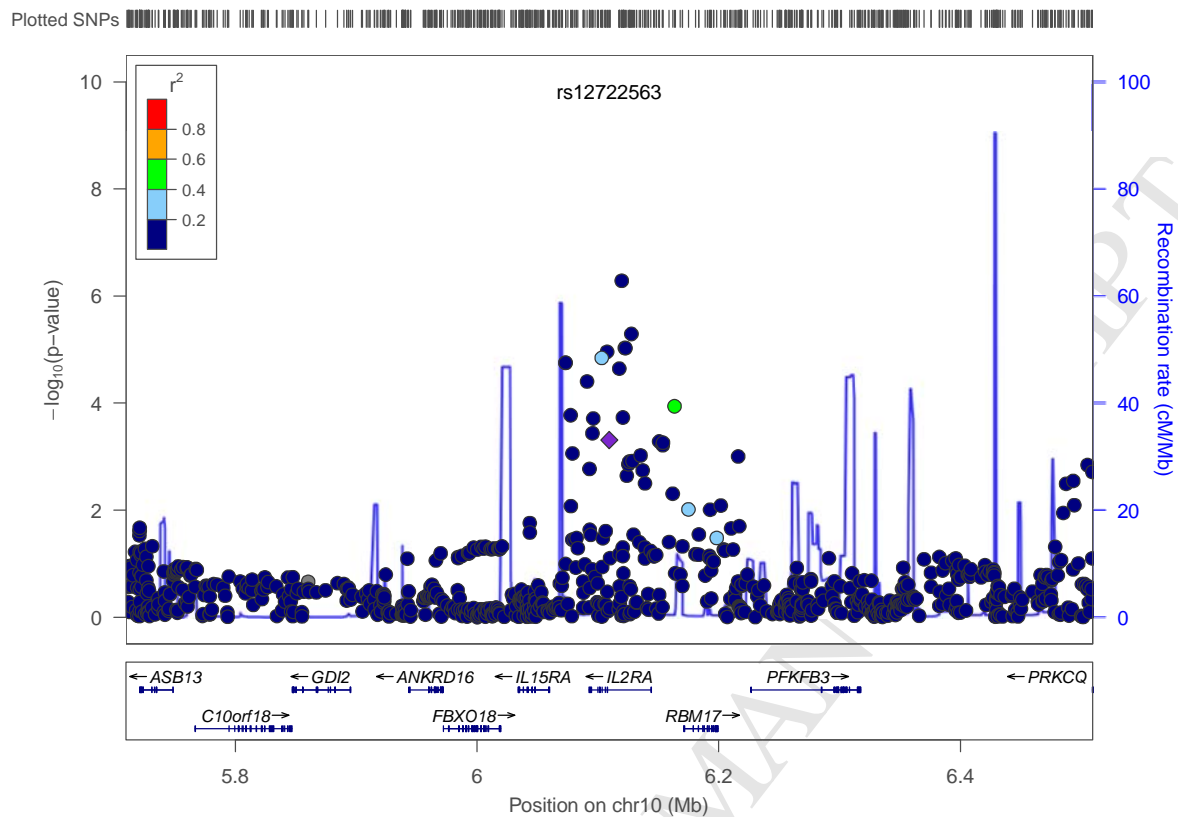


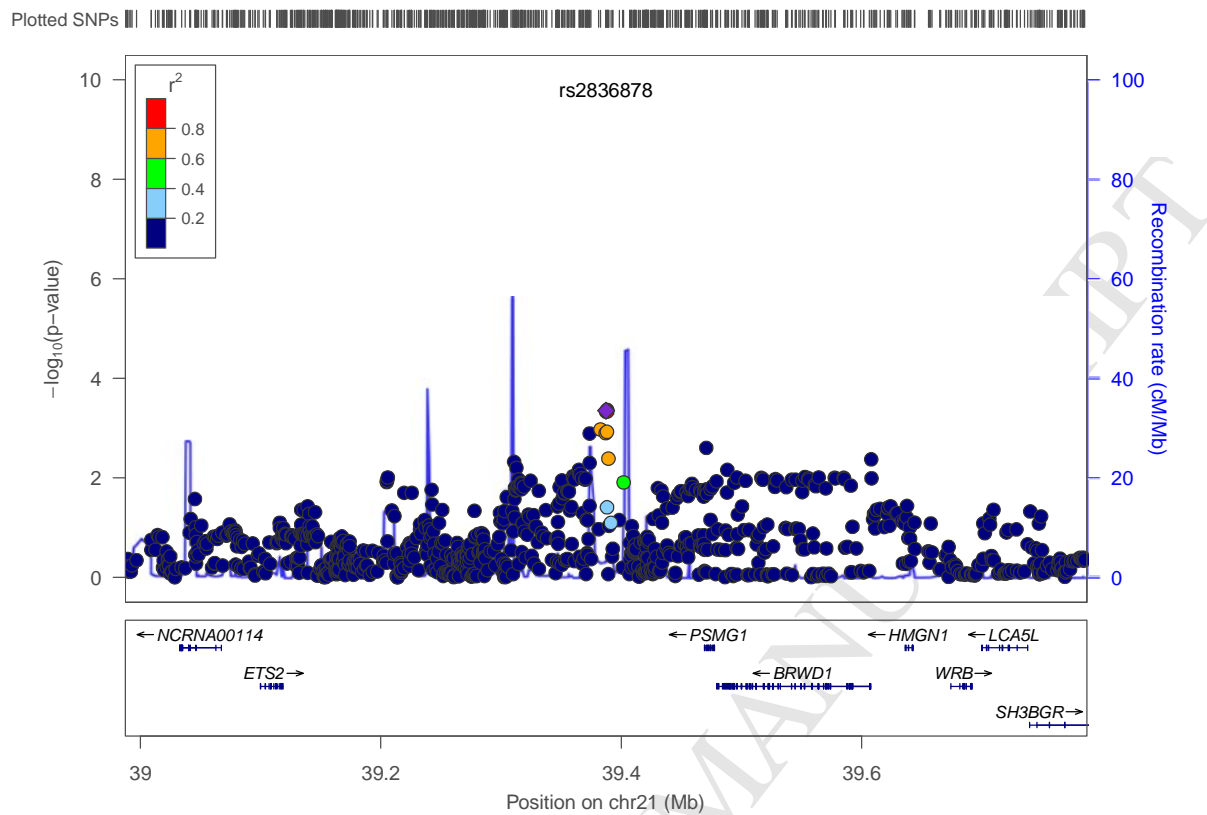


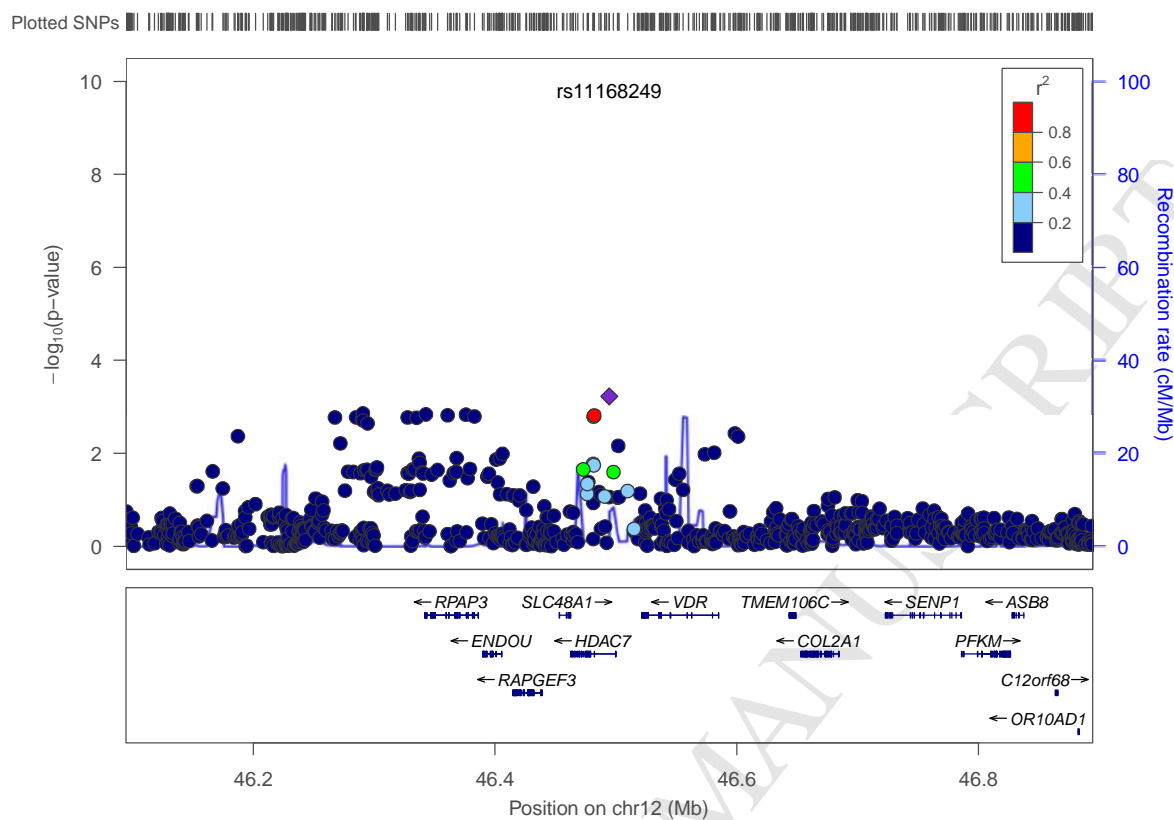


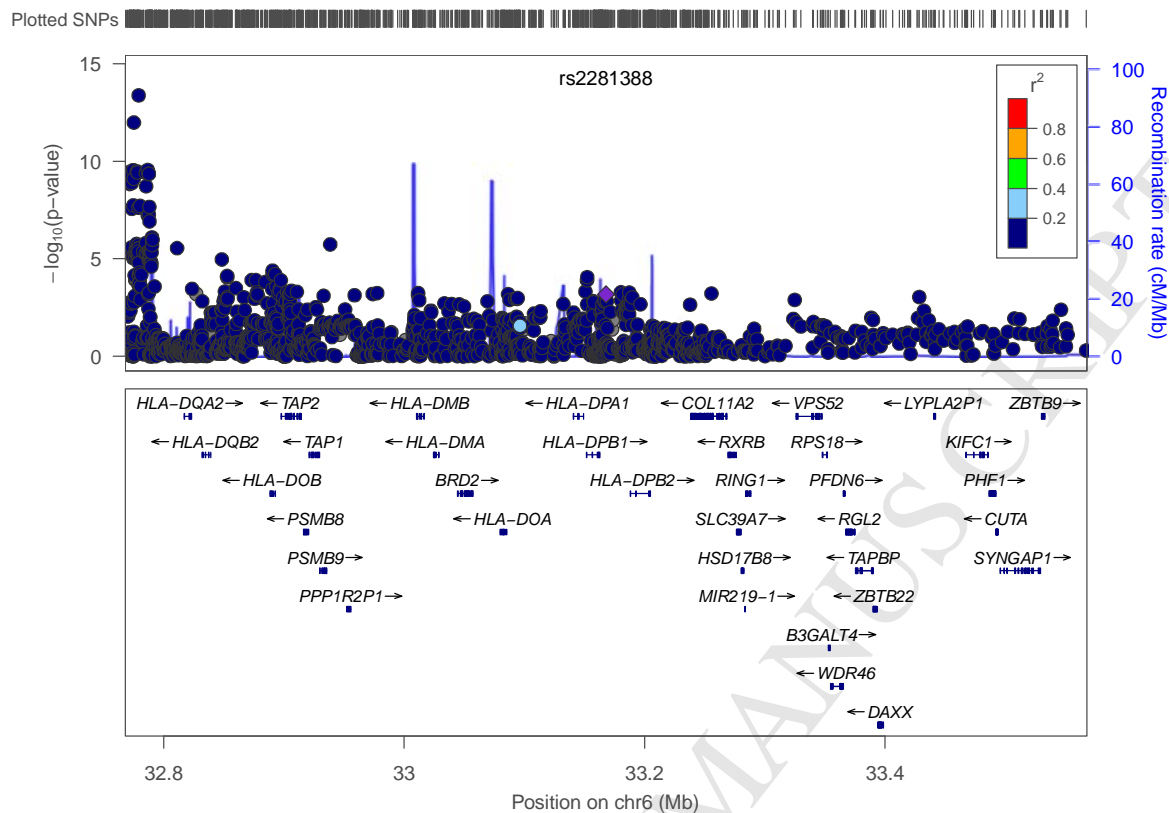


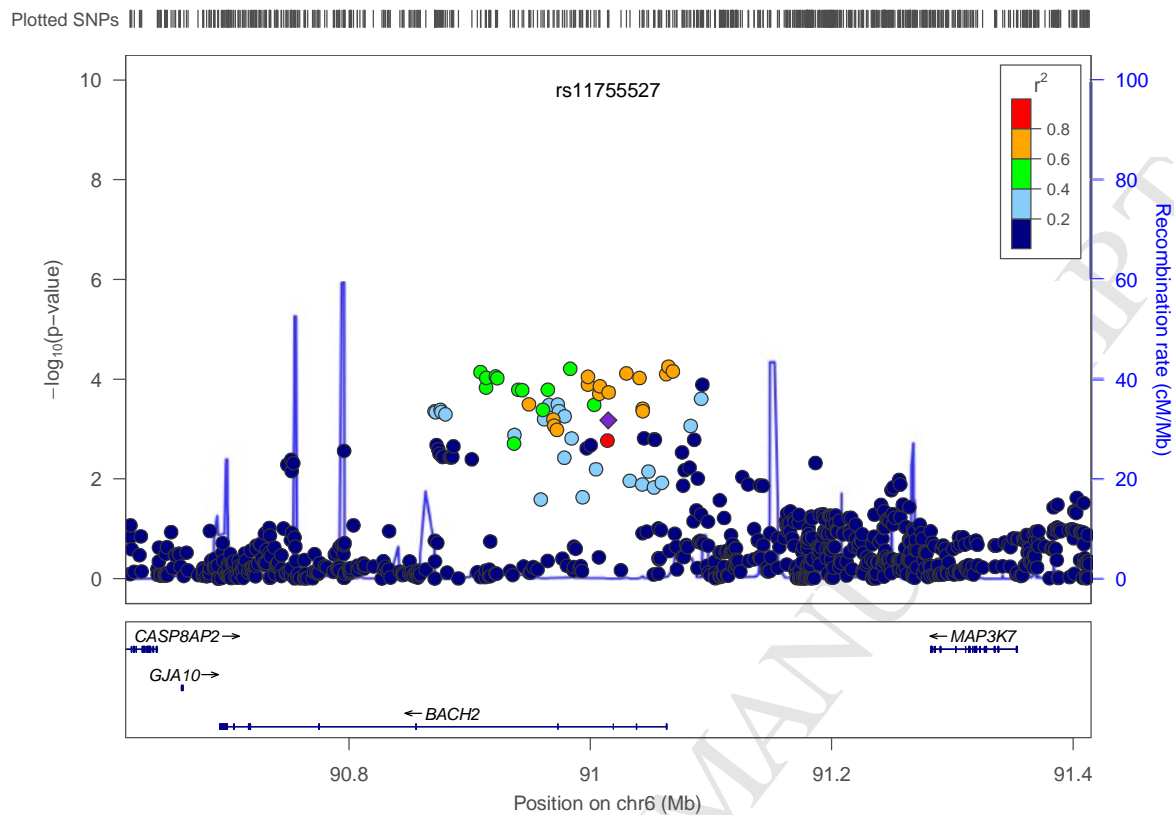


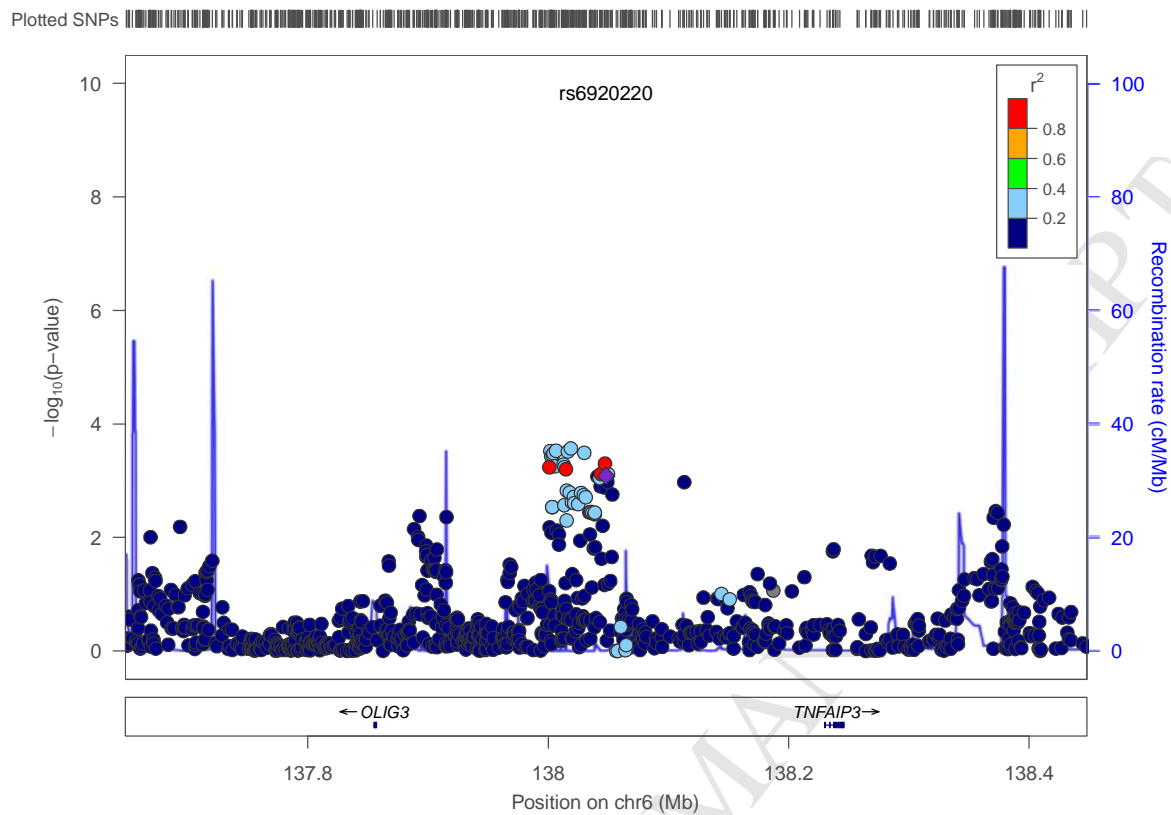


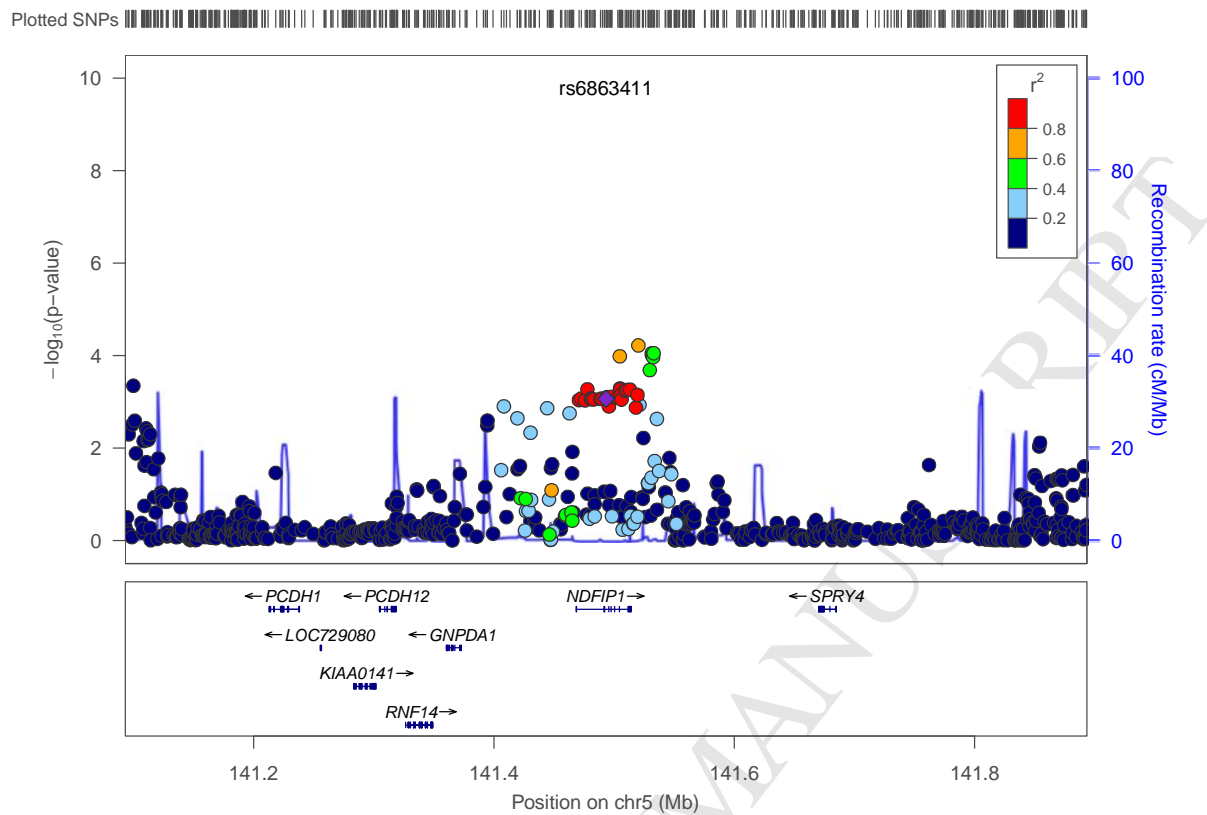


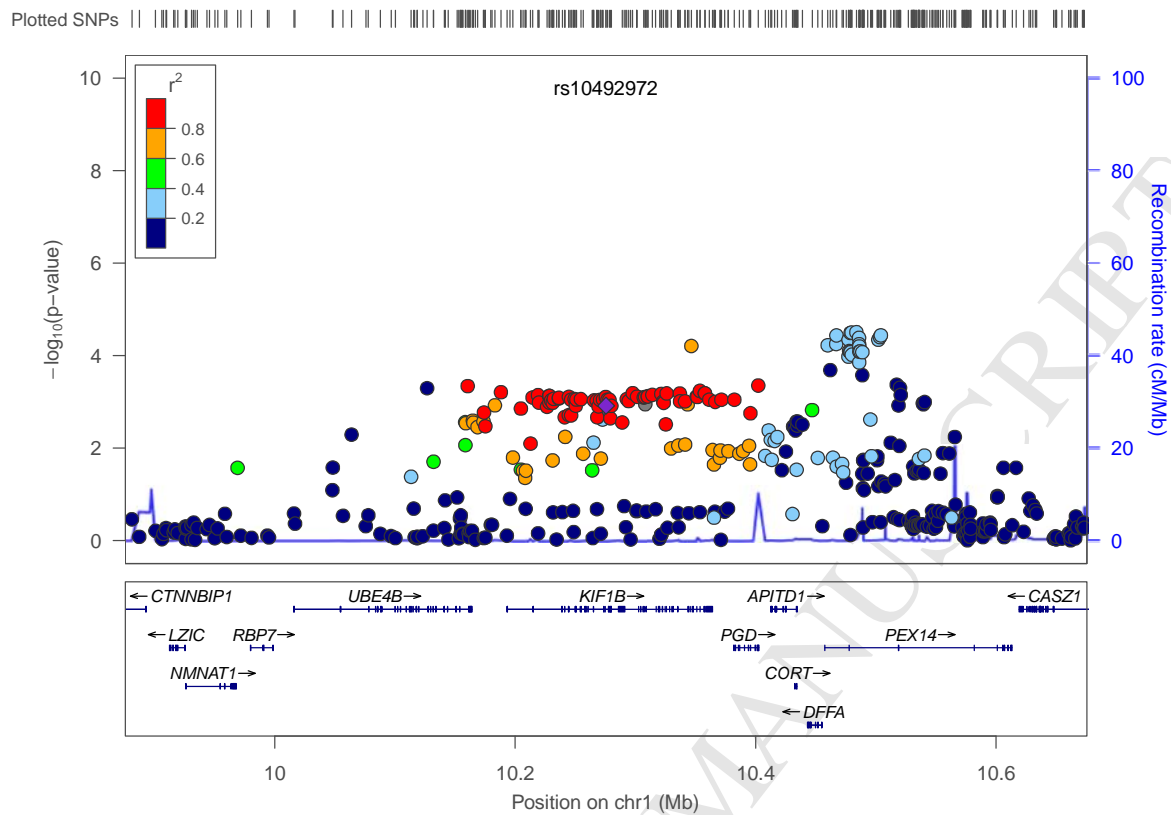


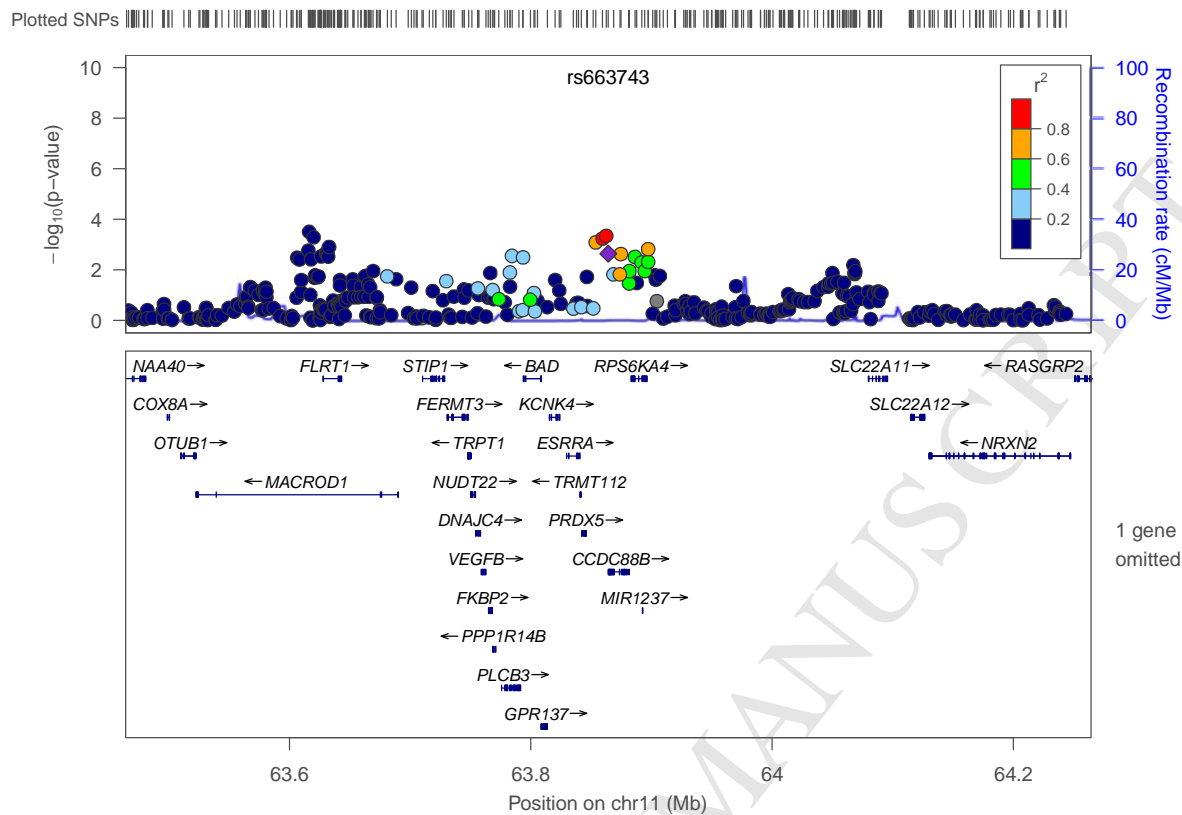


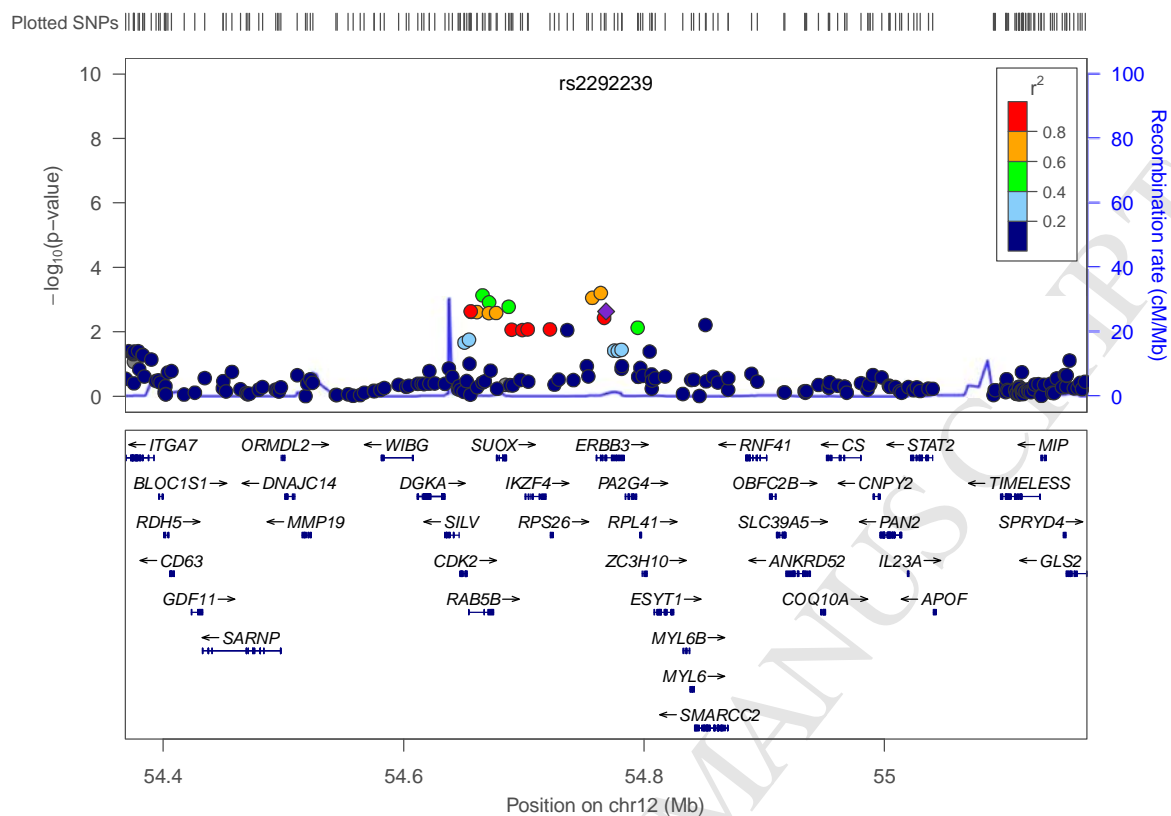


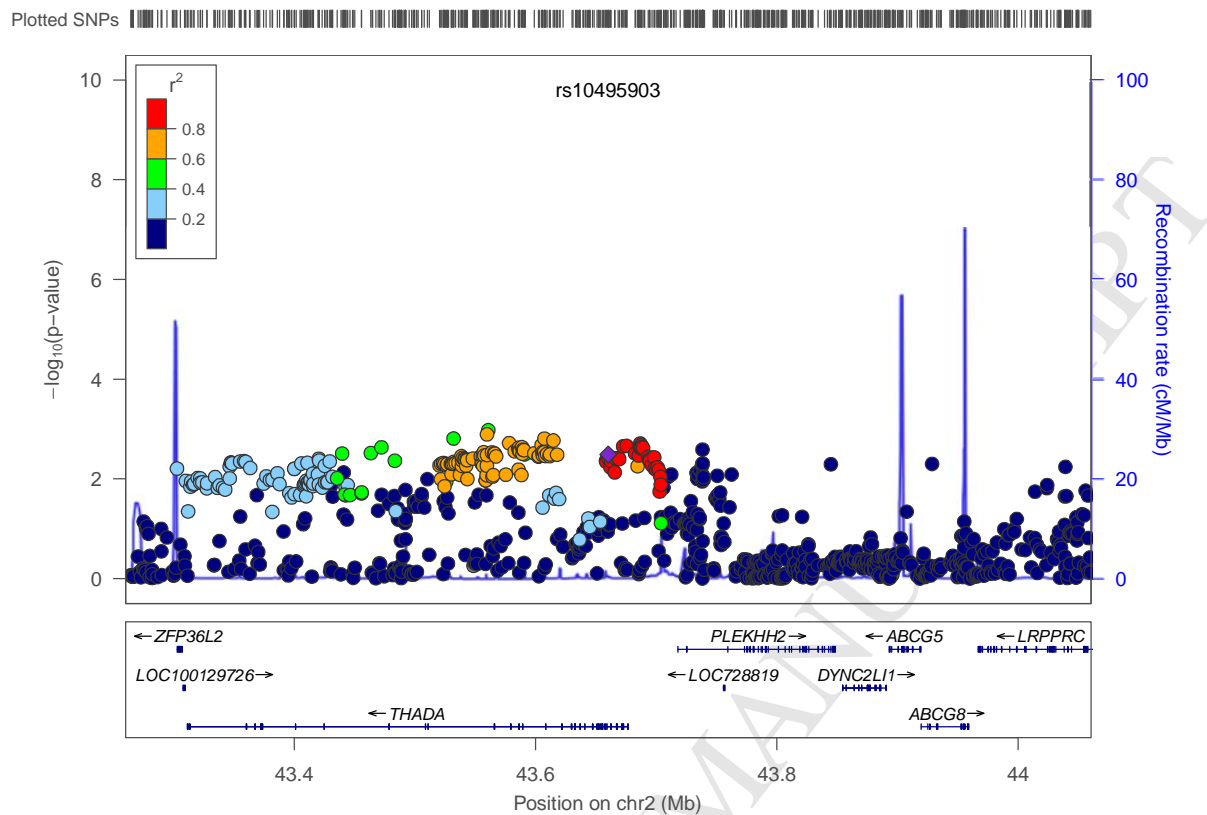






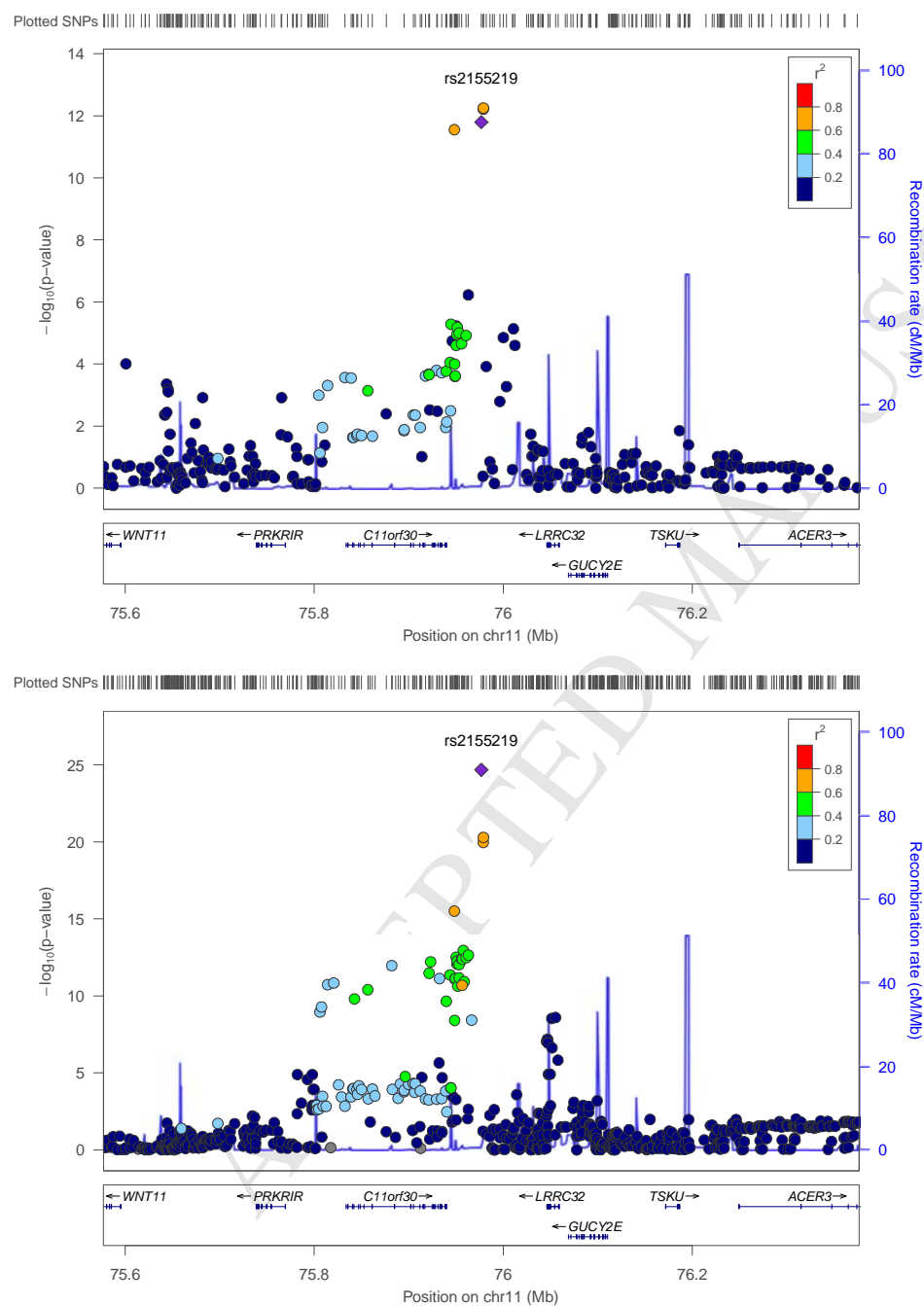


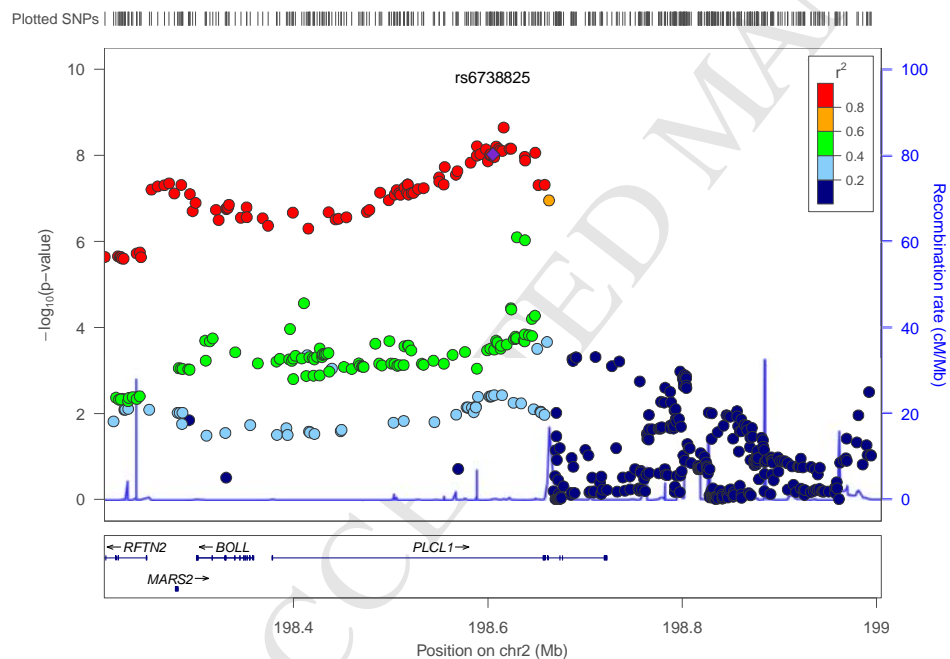
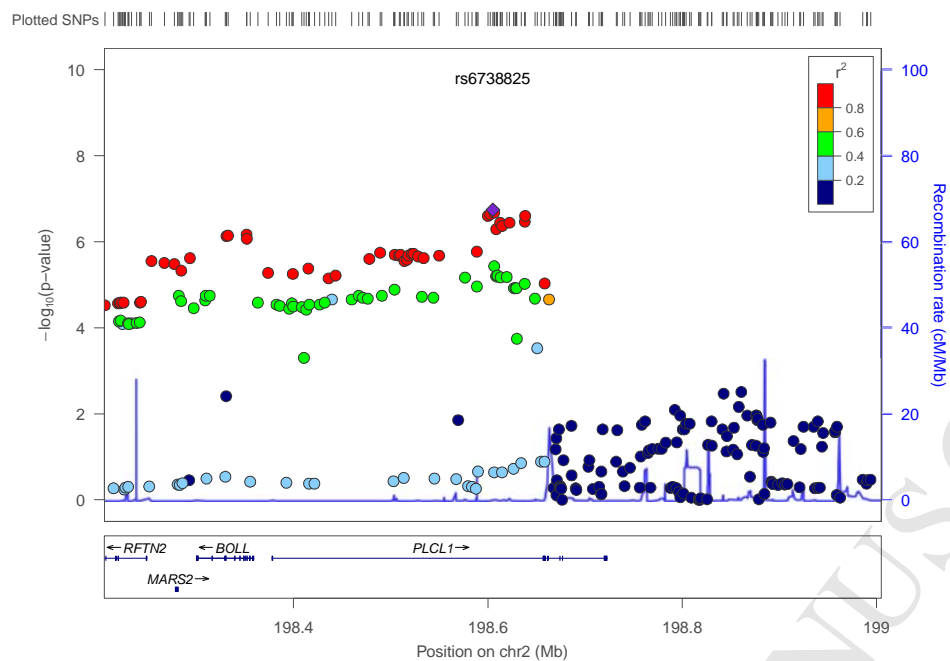




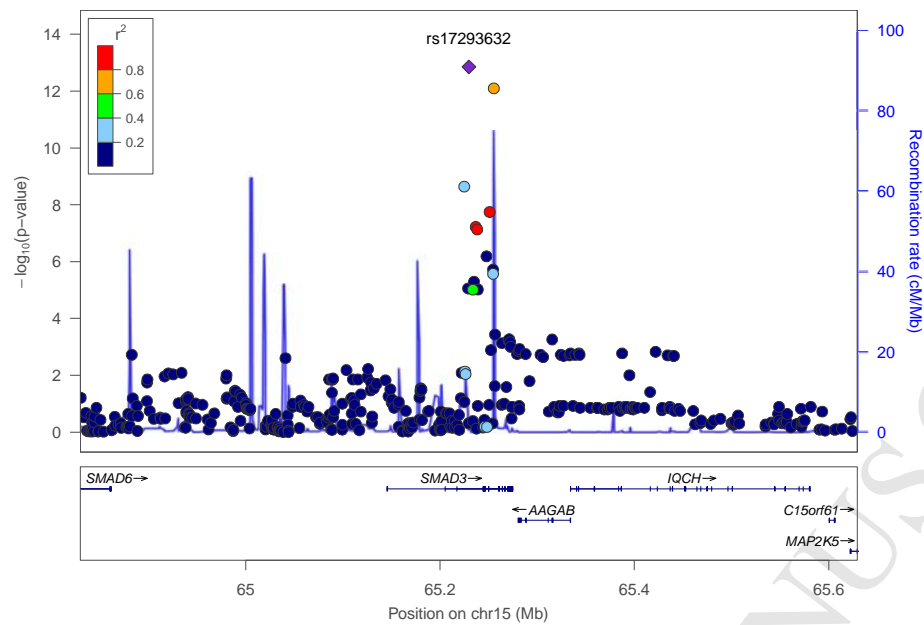
Supplementary Figure 20

Paired LocusZoom plots within a Crohn's data¹⁷ meta-analysis (top panel) and the allergy meta-analysis (bottom panel) for the 5 most significant shared loci.

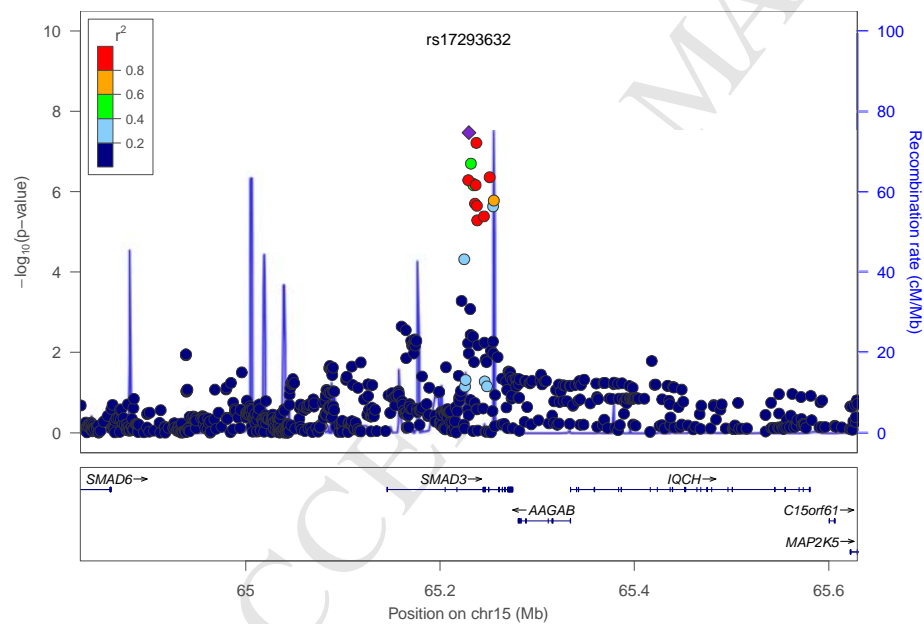


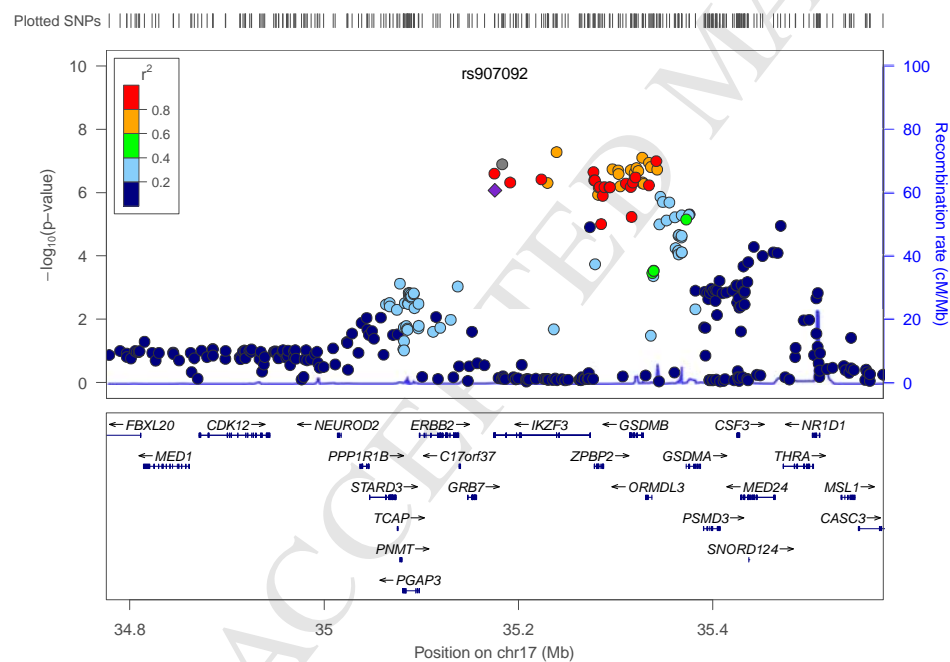
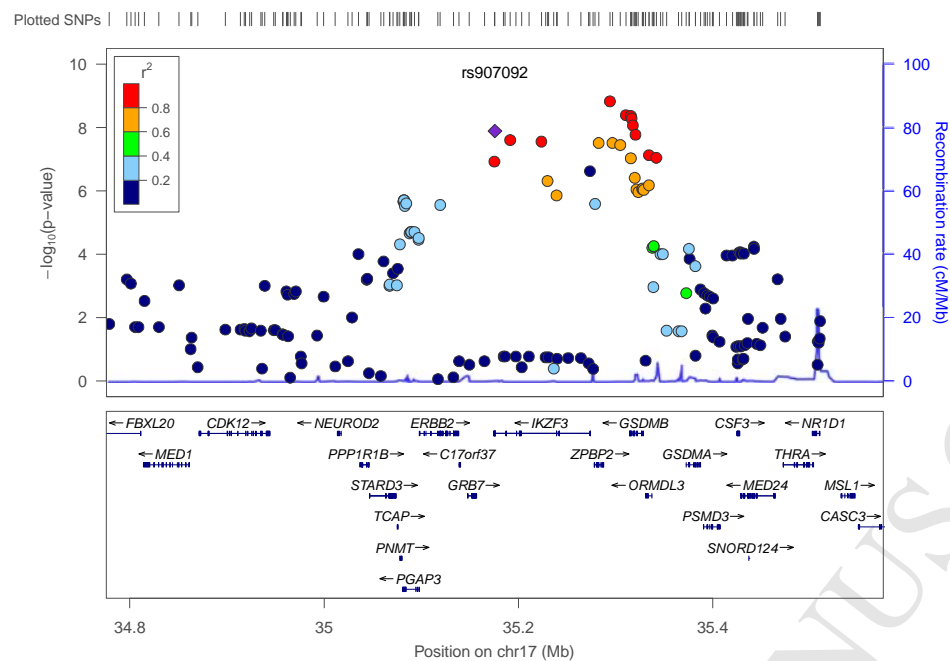


Plotted SNPs

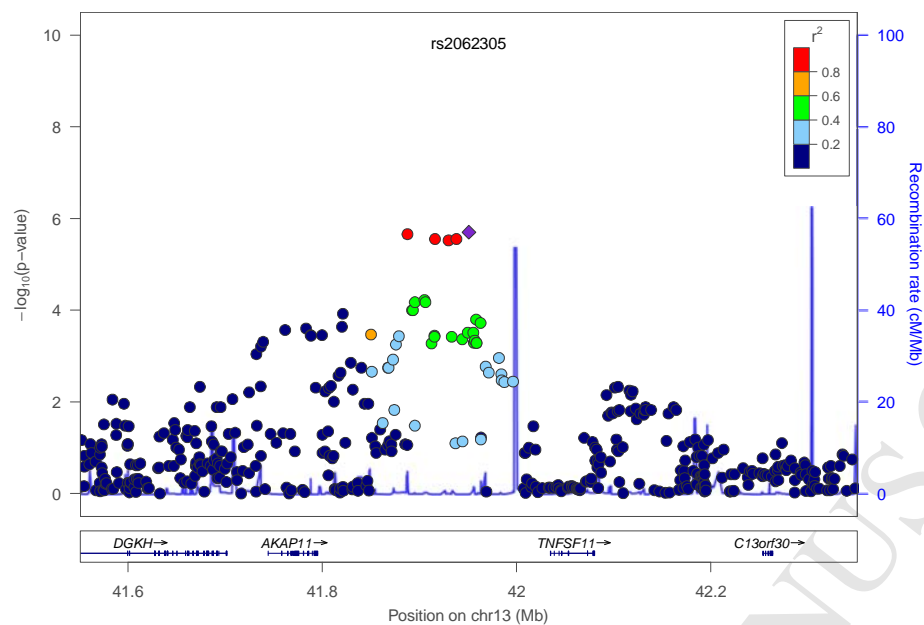


Plotted SNPs

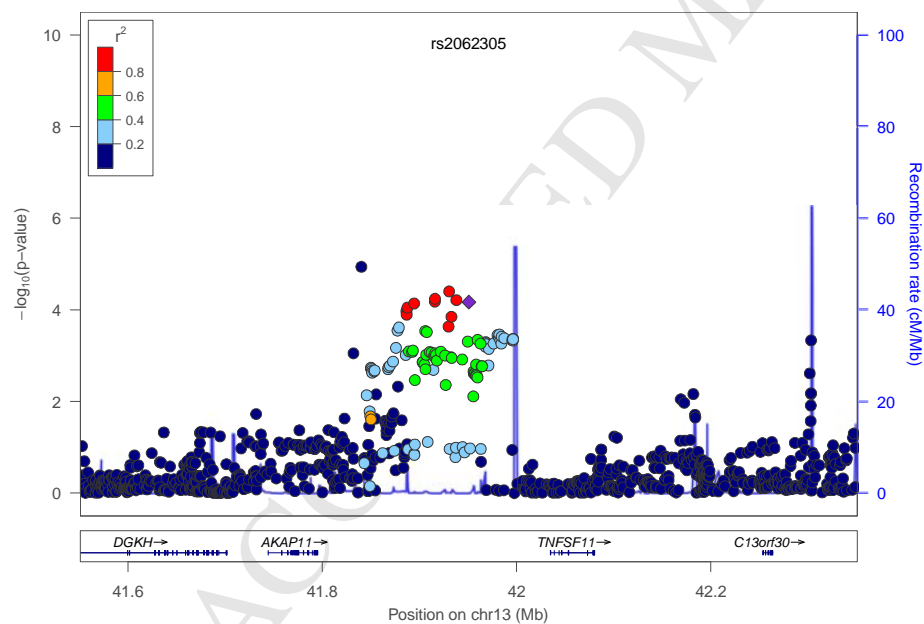




Plotted SNPs

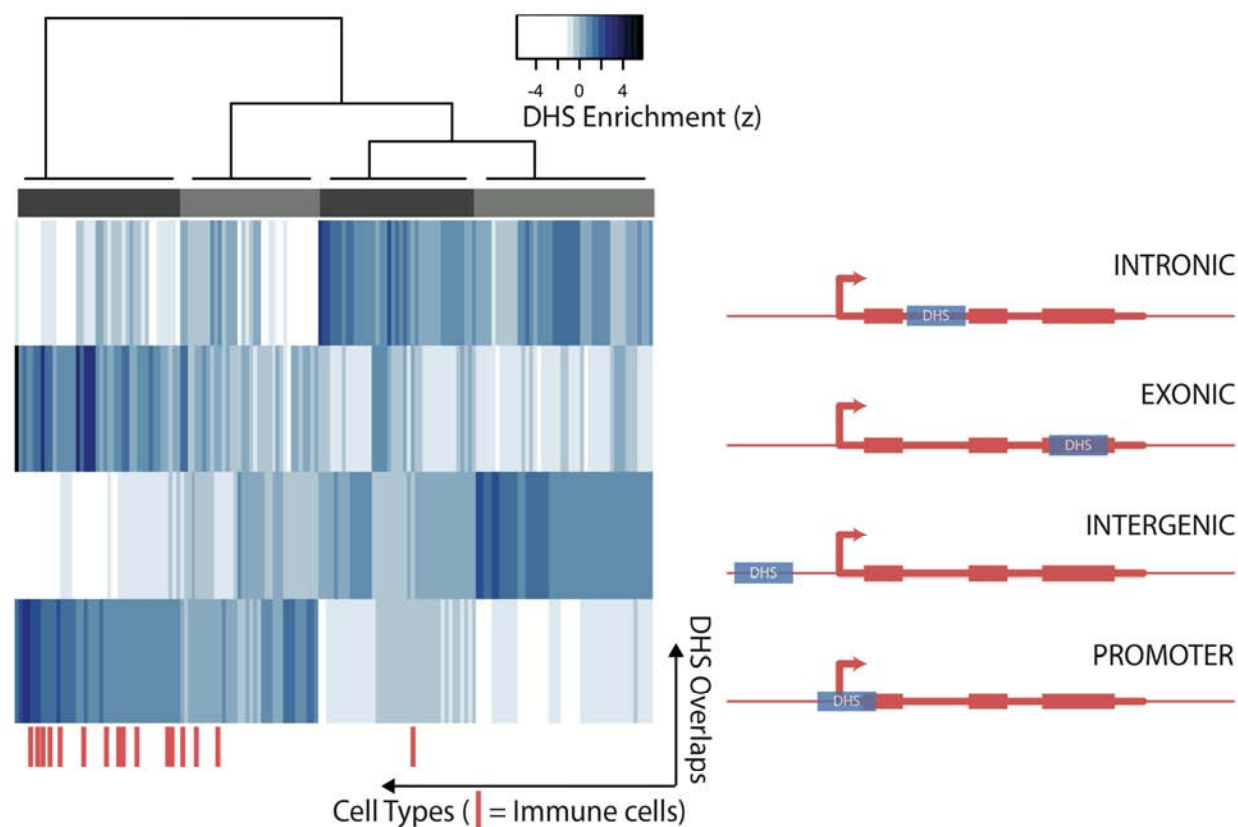


Plotted SNPs



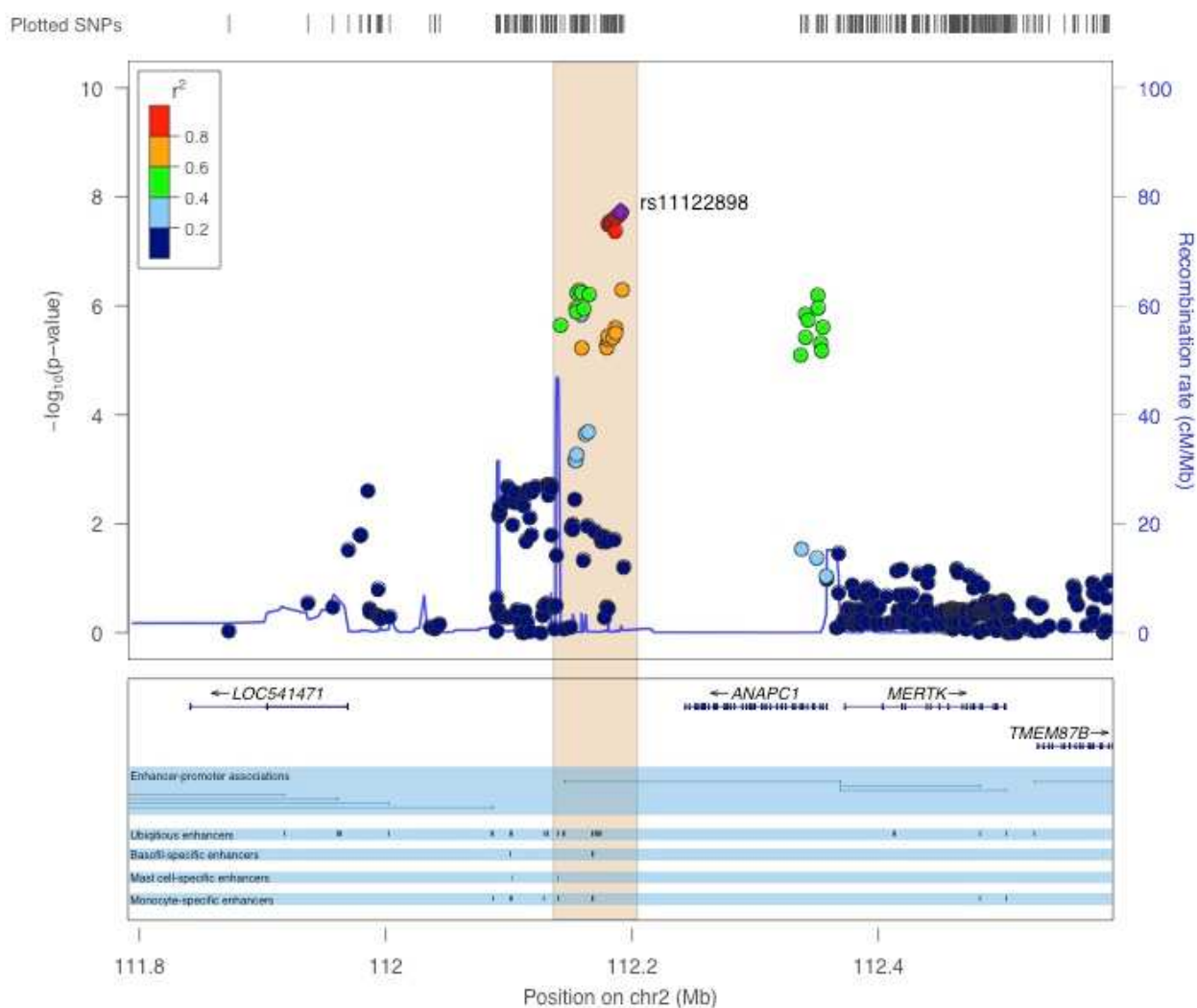
Supplementary Figure 21

ENCODE Roadmap DHS region overlap with genomic features. DHS regions for each cell type (vertical lines) were overlapped with genomic features (exons, introns, promoters, and intergenic (remaining)) (horizontal lines). Overlaps were z-scaled within each feature, and a heatmap was generated after hierarchical clustering. Immune cells are marked in red at bottom.



Supplementary Figure 22

Association plot for rs11122898 with added enhancer regions for four cell types, as well as enhancer-to gene regulatory associations, from the FANTOM5 data repository¹⁹.



Supplement references

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Traits for lookup within the GWA catalog

Trait name within the GWA catalog collapsed to 16 overall traits

COLLAPSED	GWAS CATALOG TRAIT NAME(S)
Ankylosing spondylitis	Ankylosing spondylitis
Arthritis	Arthritis (juvenile idiopathic), Celiac disease and Rheumatoid arthritis, Psoriatic arthritis, Rheumatoid arthritis
Celiac Disease	Celiac disease, Celiac disease and Rheumatoid arthritis, Crohn's disease and celiac disease
Crohn's Disease	Crohn's disease, Crohn's disease and celiac disease, Crohn's disease and psoriasis, Crohn's disease and sarcoidosis (combined)
Graves' Disease	Graves' disease
Inflammatory Bowel Disease	Crohn's disease, Crohn's disease and celiac disease, Crohn's disease and psoriasis, Crohn's disease and sarcoidosis (combined), Inflammatory bowel disease, Inflammatory bowel disease (early onset), Ulcerative colitis
Multiple Sclerosis	Multiple sclerosis, Multiple sclerosis (age of onset), Multiple sclerosis (severity), Multiple sclerosis--Brain Glutamate Levels
Myasthenia Gravis	Myasthenia gravis
Primary Biliary Cirrhosis	Primary biliary cirrhosis
Primary Sclerosing Cholangitis	Primary sclerosing cholangitis
Psoriasis	Crohn's disease and psoriasis, Psoriasis
Sarcoidosis	Crohn's disease and sarcoidosis (combined), Sarcoidosis
Systemic Lupus Erythematosus	Systemic lupus erythematosus
Systemic Sclerosis	Systemic sclerosis
Type 1 Diabetes	Diabetes (incident), Type 1 diabetes, Type 1 diabetes autoantibodies, Type 1 diabetes nephropathy
Ulcerative Colitis	Ulcerative colitis

The two trait strata used in figure 1

Allergy-related and auto-immune traits

Allergy
Asthma
Celiac disease
Crohns
Inflammatory bowel disease
Multiple sclerosis
Primary biliary cirrhosis
Psoriasis
Rheumatoid arthritis
Systemic lupus erythematosus
Type 1 diabetes
Ulcerative colitis
Vitiligo

Other traits

Acute lymphoblastic leukemia -childhood-
Adiponectin levels
Age-related macular degeneration
Airflow obstruction
Alcohol dependence
Amyotrophic lateral sclerosis
Attention deficit hyperactivity disorder
Autism spectrum disorder, attention deficit-hyperactivity disorder, bipolar disorder, major depressive disorder, and schizophrenia -combined-
Bilirubin levels
Bipolar disorder
Bipolar disorder and schizophrenia
Bladder cancer
Blood pressure
Body mass index
Bone mineral density
Bone mineral density -spine-
Breast cancer
Breast size
C-reactive protein
Cardiovascular disease risk factors
Cholesterol, total
Chronic kidney disease

Chronic lymphocytic leukemia
Chronic obstructive pulmonary disease-related biomarkers
Cognitive performance
Colorectal cancer
Corneal astigmatism
Corneal structure
Coronary artery calcification
Coronary heart disease
Dental caries
Diastolic blood pressure
Disc degeneration -lumbar-
Fasting glucose-related traits
Fasting glucose-related traits -interaction with BMI-
Fibrinogen
HDL cholesterol
Heart rate
Hippocampal atrophy
HIV-1 control
Hypertension
Immune reponse to smallpox -secreted IFN-alpha-
Immune response to smallpox vaccine -IL-6-
Iron status biomarkers
LDL cholesterol
Lipid metabolism phenotypes
Longevity
Lung cancer
Major depressive disorder
Mean corpuscular hemoglobin
Mean corpuscular volume
Mean platelet volume
Menarche -age at onset-
Menopause -age at onset-
Metabolic syndrome
Metabolic traits
Metabolite levels
Migraine
Migraine - clinic-based
Migraine without aura
Myopia -pathological-
Obesity
Orofacial clefts

Pancreatic cancer
Periodontitis -Mean PAL-
Personality dimensions
Phospholipid levels -plasma-
Platelet counts
Prostate cancer
Prostate cancer -gene x gene interaction-
Protein quantitative trait loci
Pulmonary function
Pulmonary function -interaction-
Pulmonary function decline
QT interval
Quantitative traits
Red blood cell traits
Response to amphetamines
Response to antipsychotic treatment
Response to statin therapy
Response to tocilizumab in rheumatoid arthritis
Schizophrenia
Sex hormone-binding globulin levels
Smoking behavior
Subcutaneous adipose tissue
Sudden cardiac arrest
Systolic blood pressure
Testicular germ cell tumor
Thiazide-induced adverse metabolic effects in hypertensive patients
Thyroid hormone levels
Triglycerides
Tuberculosis
Type 2 diabetes
Urate levels
Uric acid levels
Visceral adipose tissue adjusted for BMI
Visceral adipose tissue-subcutaneous adipose tissue ratio
Visceral fat
Weight

Top loci allergy meta-analysis

Chr:BP	Gene	SNP	Effect Allele	Beta	P	I ²	Het. P	Beta, 23andMe	Beta, Eagle	Effect Allele Freq. Eagle	Previous associations with allergy or related traits
2:198616285	PLCL1	rs745899	a	0.07	2.3E-09	0	3.9E-01	0.07	0.05	0.52	Hinds et al.
2:8359186		rs13416555	c	0.08	5.9E-10	-45.7	1.5E-01	0.07	0.11	0.69	Hinds et al.
2:102280646	IL1RL1, IL18R1	rs11690644	a	0.15	3.3E-18	0	7.3E-01	0.14	0.16	0.86	Bønnelykke et al + Hinds et al
3:189611673	LPP	rs9860547	a	0.08	9.2E-12	-43.5	1.5E-01	0.07	0.11	0.43	Bønnelykke et al + Hinds et al
4:38476105	FAM114A1, TLR1, TLR10	rs4833095	t	0.14	2.3E-25	49.8	1.5E-02	0.12	0.21	0.80	Bønnelykke et al + Hinds et al
4:123548812	ADAD1	rs17388568	a	0.08	1.7E-10	-89.6	2.1E-01	0.07	0.11	0.32	Bønnelykke et al + Hinds et al
5:40522653	PTGER4	rs7720838	t	0.08	1.1E-11	0	3.3E-01	0.08	0.05	0.58	Hinds et al.
5:110495398	WDR36	rs1438673	t	-0.11	2.8E-22	0	9.5E-01	-0.11	-0.11	0.51	Bønnelykke et al + Hinds et al
6:31460092	HLA-B ...	rs9266772	t	-0.10	7.8E-12	0	6.7E-01	-0.10	-0.11	0.81	Bønnelykke et al + Hinds et al
6:32734289	HLA-DCB1 ...	rs6906021	t	-0.10	1.8E-19	14.3	6.1E-02	-0.09	-0.15	0.56	Bønnelykke et al + Hinds et al
8:81452180	ZBTB10	rs4739737	t	-0.07	2.8E-09	-12.4	1.0E-01	-0.06	-0.11	0.65	Hinds et al.
8:128884211	MYC	rs4410871	t	0.06	1E-06	73	8.6E-04	0.04	0.15	0.28	Bønnelykke et al + Hinds et al
9:6209176	IL33	rs2066362	t	0.09	6.4E-09	0	3.5E-01	0.10	0.06	0.16	Hinds et al.
10:8971799		rs11255965	a	-0.22	1.8E-10	0	3.3E-01	-0.20	-0.30	0.03	Hinds et al.
11:75976842	C11ORF30	rs2155219	t	0.12	2.1E-25	61.5	5.2E-03	0.10	0.18	0.47	Bønnelykke et al + Hinds et al
11:127693112	ETS1	rs970924	a	-0.06	1.9E-07	0	6.2E-01	-0.06	-0.05	0.53	Hinds et al.
12:55775976	STAT6, LRP1	rs1059513	t	0.10	3.4E-08	85.3	6.3E-06	0.07	0.29	0.90	Bønnelykke et al.
15:65229650	SMAD3	rs17293632	t	0.07	3.4E-08	-75.5	1.9E-01	0.08	0.04	0.27	Hinds et al.
16:11138204	CLEC16A	rs7203459	t	0.07	5.4E-07	-157.7	2.8E-01	0.07	0.03	0.75	Hinds et al.
16:27318330	IL21R	rs2107357	a	0.09	2.4E-07	0	8.1E-01	0.09	0.08	0.12	Hinds et al.
17:35239327	IKZF3, ZBP2	rs3816470	a	0.06	5.3E-08	0	1.0E+00	0.06	0.06	0.46	Hinds et al.
20:49576030	NFATC2	rs6126249	a	-0.14	4.7E-08	-99.6	2.2E-01	-0.15	-0.06	0.06	Hinds et al.
2:112190645	ANAPC1	rs11122898	a	-0.07	1.90E-08	22.5	4.9E-02	-0.06	-0.11	0.53	Novel
3:142640902	ZBTB38	rs7612543	t	0.06	1.00E-07	-46.6	1.5E-01	0.05	0.10	0.43	Novel (1)
4:103749001	NFKB1	rs9790601	a	0.07	7.40E-08	-10	9.9E-02	0.06	0.11	0.67	Novel (2,3)
5:132024399	IL4, IL13, RAD50	rs848	a	0.08	3.50E-08	-167.3	2.9E-01	0.07	0.11	0.27	4-8
10:6119852	IL2RA, IL15RA	rs7072398	a	-0.06	5.20E-07	0	7.5E-01	-0.06	-0.05	0.45	9-14

11:118248496	CXCR5	rs12365699	a	-0.08	6.50E-07	-93.4	2.1E-01	-0.07	-0.12	0.17	Novel (15-19)
15:58842703	RORA	rs12900122	t	-0.09	3.50E-07	28.2	4.1E-02	-0.07	-0.15	0.15	5

1: Height (Gudbjartsson DF, Nat Genet, 2008)

2: Schizophrenia (Liou YJ, Plos One, 2012)

3: IBD (Jostins L, Nature, 2012)

4: Eczema (Hirota, Nat Genet, 2012)

5: Asthma (Moffatt, NEJM, 2010)

6: Eosinophil counts (Gudbjartsson DF, Nat Genet, 2009)

7: Psoriasis (Nair RP, Nat Genet, 2009)

8: Hodgkin's lymphoma (Urayama KY, J Natl Cancer Inst, 2012)

9: IBD (Jostins L, Nature, 2012)

10: Rheumatoid arthritis (Stahl EA, Nat Genet, 2010)

11: Multiple sclerosis (Sawcer S, Nature, 2011)

12: Alopecia areata (Petukhova L, Nature, 2010)

13: Type 1 diabetes (Barrett JC, Nat Genet, 2009)

14: Asthma and hayfever (Ferreira, JACI 2014)

15: Systemic lupus erythematosus (Han JW, Nat Genet, 2009)

16: Height (Lango Allen H, Nature, 2010)

17: Celiac disease and Rheumatoid arthritis (Zhernakova A, PloS Genet, 2011)

18: Vitiligo (Tang XF, J Invest Dermatol, 2012)

19: Primary biliary cirrhosis (Mells GF, Nat Genet, 2011)

Enrichment analyses for various P thresholds

Phenotype	# Loci	P<0.05						P<0.01						P<0.001					
		# Sig Loci	Prop. Sig	eOR	OR low.	OR up.	P	# Sig Loci	Prop. Sig	eOR	OR low.	OR up.	P	# Sig Loci	Prop. Sig	eOR	OR low.	OR up.	P
All Autoimmune Loci	290	57	0.20	4.36	3.20	5.85	1.4E-17	33	0.11	10.12	6.81	14.60	2.6E-21	24	0.08	34.35	21.51	52.55	5.9E-28
Inflammatory Bowel Disease	178	42	0.24	5.51	3.80	7.84	2.6E-16	22	0.12	11.12	6.76	17.47	1.7E-15	16	0.09	37.61	20.90	63.30	9.3E-20
Crohn's Disease	97	26	0.27	6.53	4.00	10.36	5.0E-12	17	0.18	16.75	9.29	28.56	7.0E-15	11	0.11	48.67	23.34	92.03	3.5E-15
Ulcerative Colitis	60	16	0.27	6.48	3.41	11.72	6.4E-08	8	0.13	12.13	4.97	25.72	8.7E-07	7	0.12	50.25	19.24	111.30	3.0E-10
Multiple Sclerosis	54	12	0.22	5.09	2.44	9.86	2.1E-05	7	0.13	11.74	4.47	26.16	5.1E-06	5	0.09	38.86	12.05	97.56	3.6E-07
Type 1 Diabetes	43	8	0.19	4.07	1.63	8.94	1.7E-03	7	0.16	15.33	5.75	34.95	1.1E-06	6	0.14	61.76	21.25	148.72	1.9E-09
Arthritis	40	9	0.23	5.18	2.17	11.14	2.0E-04	6	0.15	13.91	4.77	33.58	1.0E-05	5	0.13	54.43	16.60	140.44	7.6E-08
Celiac Disease	36	11	0.31	7.85	3.48	16.53	1.7E-06	9	0.25	26.26	10.87	57.63	5.3E-10	6	0.17	76.15	25.85	186.24	6.0E-10
Systemic Lupus Erythematosus	27	4	0.15	3.10	0.78	9.07	5.3E-02	2	0.07	6.31	0.72	25.30	4.5E-02	2	0.07	30.47	3.49	122.65	2.3E-03
Primary Biliary Cirrhosis	23	7	0.30	7.80	2.71	20.03	1.4E-04	5	0.22	21.89	6.35	61.23	8.6E-06	4	0.17	80.09	19.79	241.44	4.0E-07
Psoriasis	19	4	0.21	4.75	1.15	14.93	1.6E-02	4	0.21	21.02	5.08	65.99	8.2E-05	3	0.16	71.24	13.31	249.62	1.7E-05
Graves Disease	15	3	0.20	4.46	0.81	16.52	4.2E-02	3	0.20	19.71	3.57	72.90	8.0E-04	3	0.20	95.24	17.21	355.76	8.0E-06
Ankylosing Spondylitis	11	2	0.18	3.96	0.42	19.14	1.1E-01	2	0.18	17.52	1.84	84.71	8.0E-03	2	0.18	84.66	8.88	406.25	3.7E-04

DEPICKT gene set enrichment analysis for allergy

Original gene set ID	Original gene set description	Nominal P value	False discovery rate
MP:0002362	abnormal spleen marginal zone morphology	1.44E-08	0
MP:0002743	glomerulonephritis	2.04E-08	0
ENSG00000142208	AKT1 subnetwork	6.22E-08	0
GO:0030097	hemopoiesis	1.77E-07	0
GO:0048534	hemopoietic or lymphoid organ development	3.01E-07	0
MP:0000693	spleen hyperplasia	3.03E-07	0
MP:0001823	thymus hypoplasia	3.26E-07	0
MP:0000703	abnormal thymus morphology	4.04E-07	0
MP:0001859	kidney inflammation	7.05E-07	0
GO:0051251	positive regulation of lymphocyte activation	7.17E-07	0
MP:0008482	decreased spleen germinal center number	8.67E-07	0
GO:0012502	induction of programmed cell death	2.72E-06	0.001923077
GO:0002696	positive regulation of leukocyte activation	2.59E-06	0.002
GO:0032943	mononuclear cell proliferation	8.63E-06	0.002
MP:0010766	abnormal NK cell physiology	8.04E-06	0.002040816
GO:0046649	lymphocyte activation	2.57E-06	0.002083333
MP:0002391	abnormal Peyer's patch germinal center morphology	7.76E-06	0.002083333
GO:0002521	leukocyte differentiation	7.74E-06	0.00212766
MP:0004794	increased anti-nuclear antigen antibody level	2.43E-06	0.002173913
MP:0008102	lymph node hyperplasia	7.51E-06	0.002173913
GO:0042113	B cell activation	7.12E-06	0.002222222
MP:0008209	decreased pre-B cell number	1.79E-05	0.002238806
MP:0000691	enlarged spleen	2.21E-06	0.002272727
MP:0008082	increased single-positive T cell number	7.02E-06	0.002272727
ENSG00000091831	ESR1 subnetwork	1.78E-05	0.002272727
ENSG00000015475	BID subnetwork	1.75E-05	0.002307692
GO:0050670	regulation of lymphocyte proliferation	6.32E-06	0.002325581
ENSG00000105639	JAK3 subnetwork	1.67E-05	0.00234375
GO:0050863	regulation of T cell activation	2.19E-06	0.002380952
ENSG00000171150	SOCS5 subnetwork	6.12E-06	0.002380952
ENSG00000198646	NCOA6 subnetwork	1.52E-05	0.002380952
REACTOME_CD28_CO:STIMULATION	REACTOME_CD28_CO:STIMULATION	1.50E-05	0.002419355
GO:0050870	positive regulation of T cell activation	6.03E-06	0.002439024
GO:0030099	myeloid cell differentiation	1.42E-05	0.002459016
MP:0002722	abnormal immune system organ morphology	2.11E-06	0.0025
GO:0046651	lymphocyte proliferation	5.91E-06	0.0025
GO:0031295	T cell costimulation	1.33E-05	0.0025
GO:0031294	lymphocyte costimulation	1.33E-05	0.002542373
GO:0070661	leukocyte proliferation	5.80E-06	0.002564103
MP:0005027	increased susceptibility to parasitic infection	1.33E-05	0.002586207
ENSG00000003400	CASP10 subnetwork	1.80E-06	0.002631579
MP:0002123	abnormal hematopoiesis	5.61E-06	0.002631579
MP:0005150	cachexia	1.33E-05	0.002631579
MP:0002619	abnormal lymphocyte morphology	1.26E-05	0.002678571
GO:0050865	regulation of cell activation	5.60E-06	0.002702703
GO:0046631	alpha-beta T cell activation	1.05E-05	0.002727273
MP:0008215	decreased immature B cell number	1.51E-06	0.002777778
MP:0006414	decreased T cell apoptosis	5.02E-06	0.002777778
GO:0042110	T cell activation	9.94E-06	0.002777778
GO:0032944	regulation of mononuclear cell proliferation	9.40E-06	0.002830189
MP:0003304	large intestinal inflammation	4.82E-06	0.002857143

GO:0070663	regulation of leukocyte proliferation	9.34E-06	0.002884615
ENSG00000186350	RXRA subnetwork	1.41E-06	0.002941176
ENSG00000138378	STAT4 subnetwork	4.53E-06	0.002941176
MP:0002145	abnormal T cell differentiation	8.88E-06	0.002941176
GO:0050867	positive regulation of cell activation	3.75E-06	0.003030303
GO:0045321	leukocyte activation	1.29E-06	0.003125
MP:0000706	small thymus	3.67E-06	0.003125
MP:0005017	decreased B cell number	3.48E-06	0.003225806
MP:0005091	increased double-positive T cell number	1.28E-06	0.003333333
ENSG00000185507	IRF7 subnetwork	3.42E-06	0.003333333
MP:0008470	abnormal spleen B cell follicle morphology	3.38E-06	0.003448276
GO:0002694	regulation of leukocyte activation	1.25E-06	0.003571429
GO:0006917	induction of apoptosis	3.34E-06	0.003571429
MP:0005463	abnormal CD4-positive T cell physiology	1.94E-05	0.003676471
MP:0000711	thymus cortex hypoplasia	3.30E-06	0.003703704
MP:0008553	increased circulating tumor necrosis factor level	1.15E-06	0.003846154
GO:0051249	regulation of lymphocyte activation	9.01E-07	0.004166667
MP:0000688	lymphoid hyperplasia	1.97E-05	0.004347826
MP:0008497	decreased IgG2b level	2.12E-05	0.005
ENSG00000111537	IFNG subnetwork	2.26E-05	0.005633803
GO:0042098	T cell proliferation	2.49E-05	0.005844156
ENSG00000105397	TYK2 subnetwork	6.67E-05	0.005882353
GO:0030183	B cell differentiation	7.80E-05	0.005902778
MP:0005348	increased T cell proliferation	2.47E-05	0.005921053
ENSG00000111679	PTPN6 subnetwork	6.59E-05	0.005925926
MP:0008474	absent spleen germinal center	7.74E-05	0.005944056
GO:0002684	positive regulation of immune system process	6.59E-05	0.005970149
GO:0050864	regulation of B cell activation	5.35E-05	0.005982906
ENSG00000180008	SOCS4 subnetwork	7.17E-05	0.005985915
ENSG00000166888	STAT6 subnetwork	2.44E-05	0.006
MP:0000221	decreased leukocyte cell number	8.46E-05	0.006
MP:0002459	abnormal B cell physiology	6.39E-05	0.006015038
MP:0002401	abnormal lymphopoiesis	3.02E-05	0.006024096
ENSG00000175505	CLCF1 subnetwork	7.16E-05	0.006028369
ENSG00000172216	CEBPB subnetwork	5.34E-05	0.006034483
GO:0042100	B cell proliferation	8.46E-05	0.006040268
MP:0001800	abnormal humoral immune response	6.37E-05	0.006060606
REACTOME_SIGNALING_BY_EGFR	REACTOME_SIGNALING_BY_EGFR	7.14E-05	0.006071429
MP:0008578	decreased circulating interferon-gamma level	2.40E-05	0.006081081
MP:0001806	decreased IgM level	8.42E-05	0.006081081
MP:0004796	increased anti-histone antibody level	5.25E-05	0.006086957
MP:0001861	lung inflammation	2.82E-05	0.006097561
ENSG00000177606	JUN subnetwork	6.35E-05	0.00610687
GO:0050671	positive regulation of lymphocyte proliferation	7.14E-05	0.006115108
ENSG00000120738	EGR1 subnetwork	8.35E-05	0.006122449
ENSG00000170345	FOS subnetwork	9.20E-05	0.006129032
REACTOME_SIGNALING_BY_INTERLEUKINS	REACTOME_SIGNALING_BY_INTERLEUKINS	4.95E-05	0.006140351
MP:0008537	increased susceptibility to induced colitis	6.04E-05	0.006147541
ENSG00000146904	EPHA1 subnetwork	6.24E-05	0.006153846
MP:0001873	stomach inflammation	6.90E-05	0.00615942
GO:0002287	alpha-beta T cell activation involved in immune response	2.36E-05	0.006164384
ENSG00000030110	BAK1 subnetwork	8.04E-05	0.006164384
MP:0005014	increased B cell number	9.15E-05	0.006168831
REACTOME_CD28_DEPENDENT_PI3KAKT_SIGNALING	REACTOME_CD28_DEPENDENT_PI3KAKT_SIGNALING	2.79E-05	0.00617284

MP:0002497	increased IgE level	4.94E-05	0.00619469
MP:0004762	increased anti-double stranded DNA antibody level	5.98E-05	0.006198347
ENSG00000096717	SIRT1 subnetwork	6.18E-05	0.00620155
MP:0008499	increased IgG1 level	6.76E-05	0.00620438
ENSG00000127191	TRAF2 subnetwork	7.95E-05	0.006206897
ENSG00000107581	EIF3A subnetwork	9.01E-05	0.00620915
GO:0002294	CD4-positive, alpha-beta T cell differentiation involved in	1.04E-04	0.006213018
MP:0008568	abnormal interleukin secretion	4.82E-05	0.00625
GO:0007260	tyrosine phosphorylation of STAT protein	8.71E-05	0.00625
GO:0002293	alpha-beta T cell differentiation involved in immune resp	2.36E-05	0.00625
MP:0008495	decreased IgG1 level	2.75E-05	0.00625
MP:0003945	abnormal lymphocyte physiology	5.98E-05	0.00625
MP:0002189	abnormal myocardial trabeculae morphology	6.17E-05	0.00625
GO:0042093	T-helper cell differentiation	1.04E-04	0.00625
MP:0005095	decreased T cell proliferation	1.02E-04	0.006287425
MP:0001805	decreased IgG level	8.58E-05	0.006291391
ENSG00000084774	CAD subnetwork	6.14E-05	0.006299213
MP:0005018	decreased T cell number	5.86E-05	0.006302521
GO:0046634	regulation of alpha-beta T cell activation	4.74E-05	0.006306306
ENSG00000136488	CSH1 subnetwork	1.02E-04	0.006325301
ENSG00000064012	CASP8 subnetwork	2.72E-05	0.006329114
ENSG00000120833	SOC3 subnetwork	6.14E-05	0.006349206
MP:0003725	increased autoantibody level	5.67E-05	0.006355932
ENSG00000168811	IL12A subnetwork	4.59E-05	0.006363636
MP:0002490	abnormal immunoglobulin level	9.96E-05	0.006363636
MP:0004816	abnormal class switch recombination	9.28E-05	0.006369427
ENSG00000131788	PIAS3 subnetwork	6.12E-05	0.0064
MP:0004804	decreased susceptibility to autoimmune diabetes	9.94E-05	0.006402439
MP:0001790	abnormal immune system physiology	2.72E-05	0.006410256
ENSG00000141968	VAV1 subnetwork	9.25E-05	0.006410256
GO:0035710	CD4-positive, alpha-beta T cell activation	4.56E-05	0.006422018
REACTOME_SIGNALING_BY_EGFR	REACTOME_SIGNALING_BY_EGFR_IN_CANCER	1.05E-04	0.006432749
GO:0032946	positive regulation of mononuclear cell proliferation	9.93E-05	0.006441718
MP:0000714	increased thymocyte number	6.12E-05	0.006451613
MP:0008641	increased circulating interleukin-1 beta level	3.15E-05	0.006470588
GO:0042509	regulation of tyrosine phosphorylation of STAT protein	1.05E-04	0.006470588
KEGG_T_CELL_RECEPTOR_SIGNALING	KEGG_T_CELL_RECEPTOR_SIGNALING_PATHWAY	1.28E-04	0.006476684
MP:0002023	B cell derived lymphoma	4.47E-05	0.006481481
GO:0030888	regulation of B cell proliferation	9.84E-05	0.006481481
MP:0008083	decreased single-positive T cell number	1.36E-04	0.0065
ENSG00000100393	EP300 subnetwork	6.10E-05	0.006504065
GO:0070665	positive regulation of leukocyte proliferation	1.22E-04	0.006510417
ENSG00000173757	STAT5B subnetwork	9.81E-05	0.006521739
MP:0001577	anemia	1.33E-04	0.006532663
MP:0005466	abnormal T-helper 2 physiology	4.39E-05	0.006542056
MP:0002494	increased IgM level	1.22E-04	0.006544503
MP:0008475	intermingled spleen red and white pulp	3.10E-05	0.006547619
MP:0000218	increased leukocyte cell number	1.46E-04	0.006553398
MP:0005092	decreased double-positive T cell number	9.74E-05	0.0065625
MP:0002444	abnormal T cell physiology	1.33E-04	0.006565657
ENSG00000136634	IL10 subnetwork	1.21E-04	0.006578947
MP:0008075	decreased CD4-positive T cell number	1.46E-04	0.006585366
MP:0000702	enlarged lymph nodes	1.32E-04	0.006598985
GO:0046632	alpha-beta T cell differentiation	4.34E-05	0.006603774

ENSG00000113302	IL12B subnetwork	9.43E-05	0.006603774
ENSG00000142273	CBLC subnetwork	1.21E-04	0.006613757
MP:0006413	increased T cell apoptosis	1.44E-04	0.006617647
MP:0002371	abnormal thymus cortex morphology	1.32E-04	0.006632653
MP:0008603	decreased circulating interleukin-4 level	9.35E-05	0.00664557
ENSG00000184557	SOCS3 subnetwork	1.21E-04	0.006648936
MP:0008751	abnormal interleukin level	1.42E-04	0.006650246
MP:0001858	intestinal inflammation	4.29E-05	0.006666667
MP:0008500	increased IgG2a level	1.31E-04	0.006666667
ENSG00000110944	IL23A subnetwork	1.40E-04	0.006683168
MP:0002442	abnormal leukocyte physiology	1.20E-04	0.006684492
ENSG00000084676	NCOA1 subnetwork	1.08E-04	0.006686047
MP:0000709	enlarged thymus	1.29E-04	0.006701031
ENSG00000127318	IL22 subnetwork	1.40E-04	0.006716418
ENSG00000147873	IFNA5 subnetwork	1.19E-04	0.00672043
GO:0048872	homeostasis of number of cells	4.24E-05	0.006730769
MP:0008496	decreased IgG2a level	3.32E-05	0.006741573
ENSG00000120242	IFNA8 subnetwork	1.19E-04	0.006756757
MP:0005070	impaired NK cell cytotoxicity	1.49E-04	0.006763285
ENSG00000188379	IFNA2 subnetwork	1.19E-04	0.006793478
MP:0002460	decreased immunoglobulin level	4.23E-05	0.006796117
MP:0003643	spleen atrophy	3.32E-05	0.006818182
ENSG00000186803	IFNA10 subnetwork	1.19E-04	0.006830601
ENSG00000185338	SOCS1 subnetwork	4.04E-05	0.006862745
ENSG00000147877	ENSG00000147877 subnetwork	1.19E-04	0.006868132
GO:0043367	CD4-positive, alpha-beta T cell differentiation	3.25E-05	0.006896552
ENSG00000186809	ENSG00000186809 subnetwork	1.19E-04	0.006906077
GO:0002285	lymphocyte activation involved in immune response	4.03E-05	0.006930693
MP:0008049	increased memory T cell number	1.12E-04	0.006936416
ENSG00000120247	ENSG00000120247 subnetwork	1.19E-04	0.006944444
MP:0008498	decreased IgG3 level	3.23E-05	0.006976744
ENSG00000137080	IFNA21 subnetwork	1.19E-04	0.00698324
ENSG00000164399	IL3 subnetwork	3.52E-05	0.006989247
MP:0002432	abnormal CD4-positive T cell morphology	3.97E-05	0.007
ENSG00000147885	IFNA16 subnetwork	1.19E-04	0.007022472
MP:0001807	decreased IgA level	1.18E-04	0.007062147
ENSG00000143207	RFWD2 subnetwork	3.49E-05	0.007065217
ENSG00000132170	PPARG subnetwork	3.88E-05	0.007070707
GO:0002286	T cell activation involved in immune response	1.18E-04	0.007102273
GO:0042129	regulation of T cell proliferation	3.44E-05	0.007142857
MP:0008040	decreased NK T cell number	3.75E-05	0.007142857
REACTOME_COSTIMULATION_BY	REACTOME_COSTIMULATION_BY_THE_CD28_FAMILY	1.17E-04	0.007142857
MP:0002495	increased IgA level	1.16E-04	0.007183908
MP:0002492	decreased IgE level	1.52E-04	0.007211538
GO:0030098	lymphocyte differentiation	3.75E-05	0.007216495
MP:0008700	decreased interleukin-4 secretion	3.39E-05	0.007222222
MP:0000715	decreased thymocyte number	3.73E-05	0.007291667
GO:0046636	negative regulation of alpha-beta T cell activation	3.70E-05	0.007368421
GO:0002292	T cell differentiation involved in immune response	3.69E-05	0.007446809
KEGG_INSULIN_SIGNALING_PATH	KEGG_INSULIN_SIGNALING_PATHWAY	1.60E-04	0.007619048
ENSG00000113525	IL5 subnetwork	1.56E-04	0.007655502
REACTOME_INTERLEUKIN:3_5_A	REACTOME_INTERLEUKIN:3_5_AND_GM-CSF_SIGNALING	1.63E-04	0.007819905
ENSG00000164305	CASP3 subnetwork	1.68E-04	0.007981221
MP:0008045	decreased NK cell number	1.68E-04	0.008018868

ENSG00000101096	NFATC2 subnetwork	1.74E-04	0.008064516
GO:0045191	regulation of isotype switching	1.72E-04	0.008101852
MP:0002144	abnormal B cell differentiation	1.77E-04	0.008108108
ENSG00000072274	TFRC subnetwork	1.71E-04	0.008139535
MP:0000219	increased neutrophil cell number	1.76E-04	0.008144796
GO:0051250	negative regulation of lymphocyte activation	1.69E-04	0.00817757
GO:0050776	regulation of immune response	1.76E-04	0.008181818
ENSG00000215769	ENSG00000215769 subnetwork	1.76E-04	0.008219178
ENSG00000182481	KPNA2 subnetwork	1.76E-04	0.008256881
MP:0001601	abnormal myelopoiesis	1.78E-04	0.008295964
MP:0004800	decreased susceptibility to experimental autoimmune encephalomyelitis	2.35E-04	0.0086
GO:0045911	positive regulation of DNA recombination	2.16E-04	0.008606557
ENSG00000134954	ETS1 subnetwork	2.32E-04	0.008634538
ENSG00000115705	TPO subnetwork	2.14E-04	0.008641975
ENSG00000186660	ZFP91 subnetwork	2.39E-04	0.008661417
GO:0042102	positive regulation of T cell proliferation	1.85E-04	0.008666667
ENSG00000130427	EPO subnetwork	2.28E-04	0.008669355
ENSG00000142224	IL19 subnetwork	2.46E-04	0.008671587
ENSG00000105193	RPS16 subnetwork	2.12E-04	0.008677686
ENSG00000131323	TRAF3 subnetwork	2.04E-04	0.008686441
MP:0008596	increased circulating interleukin-6 level	1.94E-04	0.008695652
ENSG00000172179	PRL subnetwork	2.39E-04	0.008695652
ENSG00000145839	IL9 subnetwork	2.46E-04	0.008703704
KEGG_HEMATOPOIETIC_CELL_LINEAGE	KEGG_HEMATOPOIETIC_CELL_LINEAGE	2.24E-04	0.008704453
ENSG00000120235	IFNA6 subnetwork	1.83E-04	0.008705357
GO:0001772	immunological synapse	2.10E-04	0.008713693
ENSG00000114127	XRN1 subnetwork	1.99E-04	0.008723404
GO:0000060	protein import into nucleus, translocation	2.38E-04	0.008730159
ENSG00000113263	ITK subnetwork	1.90E-04	0.008733624
ENSG00000111536	IL26 subnetwork	2.46E-04	0.008736059
REACTOME_REGULATION_OF_IFNG_SIGNALING	REACTOME_REGULATION_OF_IFNG_SIGNALING	2.23E-04	0.008739837
ENSG00000054267	ARID4B subnetwork	2.10E-04	0.00875
ENSG00000117020	AKT3 subnetwork	1.98E-04	0.008760684
ENSG00000120210	INSL6 subnetwork	2.37E-04	0.00876494
ENSG00000177047	IFNW1 subnetwork	2.46E-04	0.008768657
REACTOME_ZINC_INFLUX_INTO_CELLS_BY_THE_SLC39_FAMILIES	REACTOME_ZINC_INFLUX_INTO_CELLS_BY_THE_SLC39_FAMILIES	1.89E-04	0.00877193
MP:0008088	abnormal T-helper 1 cell differentiation	2.21E-04	0.00877551
MP:0008476	increased spleen red pulp amount	2.07E-04	0.008786611
ENSG00000150281	CTF1 subnetwork	1.97E-04	0.008798283
ENSG00000183709	IL28A subnetwork	2.46E-04	0.008801498
ENSG00000118260	CREB1 subnetwork	1.88E-04	0.008810573
MP:0000689	abnormal spleen morphology	2.07E-04	0.008823529
KEGG_GRAFT_VERSUS_HOST_DISEASE	KEGG_GRAFT_VERSUS_HOST_DISEASE	2.49E-04	0.008823529
ENSG00000128342	LIF subnetwork	2.46E-04	0.008834586
REACTOME_SIGNALING_BY_SCF_FOS	REACTOME_SIGNALING_BY_SCF_FOS	1.97E-04	0.008836207
GO:0050871	positive regulation of B cell activation	1.88E-04	0.008849558
ENSG00000164400	CSF2 subnetwork	2.05E-04	0.008860759
ENSG00000197110	IL28B subnetwork	2.46E-04	0.008867925
MP:0001952	increased airway responsiveness	1.96E-04	0.008874459
ENSG00000164136	IL15 subnetwork	2.46E-04	0.008901515
ENSG00000138684	IL21 subnetwork	2.46E-04	0.008935361
ENSG00000147896	IFNK subnetwork	2.46E-04	0.008969466
ENSG00000184995	IFNE subnetwork	2.46E-04	0.009003831
MP:0001828	abnormal T cell activation	2.43E-04	0.009019608

ENSG00000104432	IL7 subnetwork	2.46E-04	0.009038462
ENSG00000162892	IL24 subnetwork	2.46E-04	0.009073359
ENSG00000182393	IL29 subnetwork	2.46E-04	0.009108527
GO:0043370	regulation of CD4-positive, alpha-beta T cell differentiation	2.44E-04	0.009143969
GO:0045619	regulation of lymphocyte differentiation	2.43E-04	0.009179688
ENSG00000171855	IFNB1 subnetwork	2.74E-04	0.00923913
MP:0005671	abnormal response to transplant	2.72E-04	0.009272727
MP:0005016	decreased lymphocyte cell number	2.70E-04	0.009306569
ENSG00000113520	IL4 subnetwork	2.69E-04	0.009340659
MP:0002493	increased IgG level	2.97E-04	0.009649123
MP:0000708	thymus hyperplasia	2.93E-04	0.009683099
MP:0004799	increased susceptibility to experimental autoimmune encephalomyelitis	2.87E-04	0.009717314
MP:0008078	increased CD8-positive T cell number	2.82E-04	0.009747292
GO:0005031	tumor necrosis factor-activated receptor activity	2.87E-04	0.009751773
MP:0008211	decreased mature B cell number	2.86E-04	0.009786477
GO:0002637	regulation of immunoglobulin production	2.86E-04	0.009821429
MP:0000685	abnormal immune system morphology	2.85E-04	0.009856631
MP:0005013	increased lymphocyte cell number	3.09E-04	0.009861592
ENSG00000170677	SOCS6 subnetwork	3.17E-04	0.009863946
ENSG00000005339	CREBBP subnetwork	2.83E-04	0.009892086
GO:0032880	regulation of protein localization	3.09E-04	0.009895833
KEGG_INTESTINAL_IMMUNE_NETWORK_FOR_IGA_PRODUCTION	KEGG_INTESTINAL_IMMUNE_NETWORK_FOR_IGA_PRODUCTION	3.16E-04	0.009897611
MP:0009790	decreased susceptibility to viral infection induced morbidity	3.04E-04	0.009930314
GO:0008285	negative regulation of cell proliferation	3.16E-04	0.009931507
ENSG00000133704	IPO8 subnetwork	3.04E-04	0.009965035
REACTOME_INTERLEUKIN:2_SIGNALING	REACTOME_INTERLEUKIN:2_SIGNALING	3.14E-04	0.009965636
ENSG00000109471	IL2 subnetwork	3.28E-04	0.009966216
ENSG00000103723	AP3B2 subnetwork	3.12E-04	0.01
ENSG00000160185	UBASH3A subnetwork	3.23E-04	0.01
ENSG00000136244	IL6 subnetwork	3.38E-04	0.010367893
ENSG00000095752	IL11 subnetwork	3.37E-04	0.010402685
GO:2000514	regulation of CD4-positive, alpha-beta T cell activation	3.36E-04	0.01043771
ENSG00000162434	JAK1 subnetwork	3.46E-04	0.010726073
MP:0008567	decreased interferon-gamma secretion	3.46E-04	0.010761589
GO:0060334	regulation of interferon-gamma-mediated signaling pathway	3.44E-04	0.010797342
GO:0060330	regulation of response to interferon-gamma	3.44E-04	0.010833333
MP:0000694	spleen hypoplasia	3.46E-04	0.010855263
ENSG00000108342	CSF3 subnetwork	3.54E-04	0.011074919
GO:0001773	myeloid dendritic cell activation	3.53E-04	0.011111111
GO:0042531	positive regulation of tyrosine phosphorylation of STAT proteins	3.51E-04	0.011147541
ENSG00000167363	FN3K subnetwork	3.57E-04	0.011201299
ENSG00000138095	LRPPRC subnetwork	3.64E-04	0.011217949
MP:0008566	increased interferon-gamma secretion	3.60E-04	0.011254019
GO:0002250	adaptive immune response	3.58E-04	0.011290323
MP:0004771	increased anti-single stranded DNA antibody level	3.58E-04	0.011326861
MP:0001860	liver inflammation	3.73E-04	0.011464968
ENSG00000145777	TSLP subnetwork	3.68E-04	0.011501597
ENSG00000126561	STAT5A subnetwork	3.94E-04	0.0115625
MP:0008101	lymph node hypoplasia	3.94E-04	0.011598746
MP:0008074	increased CD4-positive T cell number	3.92E-04	0.01163522
MP:0004809	increased hematopoietic stem cell number	4.29E-04	0.011641791
MP:0002871	albuminuria	4.21E-04	0.011666667
MP:0008097	increased plasma cell number	3.86E-04	0.011671924
GO:0005035	death receptor activity	4.29E-04	0.011676647

GO:0002312	B cell activation involved in immune response	4.17E-04	0.011702128
GO:0045086	positive regulation of interleukin-2 biosynthetic process	3.81E-04	0.011708861
ENSG00000168610	STAT3 subnetwork	4.28E-04	0.011711712
ENSG00000065609	SNAP91 subnetwork	4.16E-04	0.011737805
ENSG00000162891	IL20 subnetwork	3.75E-04	0.011746032
GO:0030217	T cell differentiation	4.27E-04	0.011746988
MP:0005093	decreased B cell proliferation	4.14E-04	0.0117737
ENSG00000116030	SUMO1 subnetwork	4.27E-04	0.011782477
KEGG_VEGF_SIGNALING_PATHWAY	KEGG_VEGF_SIGNALING_PATHWAY	4.06E-04	0.011801242
MP:0008688	decreased interleukin-2 secretion	4.14E-04	0.011809816
MP:0003957	abnormal nitric oxide homeostasis	4.37E-04	0.01183432
GO:0002695	negative regulation of leukocyte activation	4.02E-04	0.011838006
ENSG00000176177	ENTHD1 subnetwork	4.13E-04	0.011846154
GO:0045580	regulation of T cell differentiation	4.35E-04	0.011869436
GO:0042092	type 2 immune response	4.12E-04	0.011882716
REACTOME_SIGNALING_BY_ERBB	REACTOME_SIGNALING_BY_ERBB2	4.35E-04	0.011904762
ENSG00000169194	IL13 subnetwork	4.10E-04	0.011919505
MP:0005088	increased acute inflammation	4.76E-04	0.011925287
GO:0002683	negative regulation of immune system process	4.75E-04	0.011959654
MP:0002891	increased insulin sensitivity	4.53E-04	0.011988304
GO:0045830	positive regulation of isotype switching	4.73E-04	0.01199422
ENSG00000035115	SH3YL1 subnetwork	4.50E-04	0.01202346
ENSG00000105221	AKT2 subnetwork	4.69E-04	0.012028986
MP:0002398	abnormal bone marrow cell morphology/development	4.50E-04	0.012058824
GO:0001816	cytokine production	4.59E-04	0.012063953
REACTOME_INTERLEUKIN:6_SIGNALING	REACTOME_INTERLEUKIN:6_SIGNALING	4.49E-04	0.012094395
MP:0008173	increased follicular B cell number	4.57E-04	0.012099125
ENSG00000198791	CNOT7 subnetwork	4.83E-04	0.01260745
GO:0045885	positive regulation of survival gene product expression	4.90E-04	0.012784091
GO:0000018	regulation of DNA recombination	5.03E-04	0.01281337
ENSG00000099985	OSM subnetwork	4.88E-04	0.012820513
KEGG_TGF_BETA_SIGNALING_PATHWAY	KEGG_TGF_BETA_SIGNALING_PATHWAY	5.02E-04	0.012849162
ENSG00000147168	IL2RG subnetwork	4.87E-04	0.012857143
MP:0002344	abnormal lymph node B cell domain morphology	5.02E-04	0.012885154
ENSG00000118495	PLAGL1 subnetwork	4.99E-04	0.012921348
MP:0008484	decreased spleen germinal center size	4.93E-04	0.012957746
MP:0008660	increased interleukin-10 secretion	4.93E-04	0.01299435
GO:0002263	cell activation involved in immune response	5.05E-04	0.013019391
ENSG00000170484	KRT74 subnetwork	4.91E-04	0.013031161
GO:0002366	leukocyte activation involved in immune response	5.05E-04	0.013055556
REACTOME_CD28_DEPENDENT_VAV1_PATHWAY	REACTOME_CD28_DEPENDENT_VAV1_PATHWAY	5.10E-04	0.013259669
MP:0005015	increased T cell number	5.13E-04	0.013498623
ENSG00000003402	CFLAR subnetwork	5.32E-04	0.01352459
ENSG00000111145	ELK3 subnetwork	5.25E-04	0.013561644
KEGG_AMYOTROPHIC_LATERAL_SCLEROSIS_ALS	KEGG_AMYOTROPHIC_LATERAL_SCLEROSIS_ALS	5.38E-04	0.013586957
MP:0005465	abnormal T-helper 1 physiology	5.17E-04	0.013598901
MP:0005090	increased double-negative T cell number	5.38E-04	0.013623978
GO:0002697	regulation of immune effector process	5.48E-04	0.01395664
MP:0008501	increased IgG2b level	5.63E-04	0.014189189
MP:0002499	chronic inflammation	5.65E-04	0.014285714
MP:0001792	impaired wound healing	5.99E-04	0.015425532
GO:0031334	positive regulation of protein complex assembly	6.17E-04	0.015445026
ENSG00000143621	ILF2 subnetwork	5.98E-04	0.015466667
REACTOME_DOWNSTREAM_SIGNAL_TRANSDUCTION	REACTOME_DOWNSTREAM_SIGNAL_TRANSDUCTION	6.16E-04	0.015485564

MP:0005078	abnormal cytotoxic T cell physiology	5.96E-04	0.015508021
ENSG00000124813	RUNX2 subnetwork	6.12E-04	0.015526316
GO:0051043	regulation of membrane protein ectodomain proteolysis	5.91E-04	0.015549598
REACTOME_INTERLEUKIN_RECEP	REACTOME_INTERLEUKIN_RECEPTOR_SHC_SIGNALING	6.07E-04	0.015567282
MP:0004392	abnormal CD8-positive T cell physiology	5.88E-04	0.015591398
GO:0002819	regulation of adaptive immune response	6.04E-04	0.015608466
ENSG00000189162	ENSG00000189162 subnetwork	6.04E-04	0.015649867
ENSG00000185104	FAF1 subnetwork	6.20E-04	0.015665796
MP:0008682	decreased interleukin-17 secretion	6.32E-04	0.015673575
MP:0005079	defective cytotoxic T cell cytolysis	6.31E-04	0.015714286
GO:0005126	cytokine receptor binding	6.30E-04	0.015755208
ENSG00000168040	FADD subnetwork	6.40E-04	0.015769231
MP:0000696	abnormal Peyer's patch morphology	6.38E-04	0.015809769
MP:0008255	decreased megakaryocyte cell number	6.37E-04	0.015850515
GO:0019221	cytokine-mediated signaling pathway	6.35E-04	0.015891473
MP:0008713	abnormal cytokine level	6.50E-04	0.015943878
MP:0000716	abnormal immune system cell morphology	6.46E-04	0.015984655
GO:0045637	regulation of myeloid cell differentiation	6.58E-04	0.016157761
ENSG00000076984	MAP2K7 subnetwork	6.62E-04	0.016202532
MP:0002831	absent Peyer's patches	6.62E-04	0.016243655
ENSG00000096968	JAK2 subnetwork	6.79E-04	0.016460396
MP:0005011	increased eosinophil cell number	6.79E-04	0.016501241
REACTOME_CTLA4_INHIBITORY_S	REACTOME_CTLA4_INHIBITORY_SIGNALING	6.67E-04	0.016540404
GO:0002889	regulation of immunoglobulin mediated immune respon	6.75E-04	0.016542289
MP:0008699	increased interleukin-4 secretion	6.81E-04	0.01654321
ENSG00000161326	DUSP14 subnetwork	6.74E-04	0.016583541
ENSG00000104833	TUBB4A subnetwork	6.69E-04	0.016624685
ENSG00000081237	PTPRC subnetwork	6.73E-04	0.016625
GO:0050868	negative regulation of T cell activation	6.72E-04	0.016666667
ENSG00000065559	MAP2K4 subnetwork	6.71E-04	0.016708543
MP:0000322	increased granulocyte number	6.88E-04	0.017076167
ENSG00000117632	STMN1 subnetwork	6.87E-04	0.017118227
ENSG00000064835	POU1F1 subnetwork	7.07E-04	0.017149758
MP:0001881	abnormal mammary gland physiology	7.04E-04	0.017191283
ENSG00000182866	LCK subnetwork	7.03E-04	0.01723301
ENSG00000108924	HLF subnetwork	7.02E-04	0.017274939
MP:0003009	abnormal cytokine secretion	6.93E-04	0.017279412
ENSG00000116824	CD2 subnetwork	7.01E-04	0.017317073
ENSG00000097033	SH3GLB1 subnetwork	7.01E-04	0.017359413
ENSG00000173273	TNKS subnetwork	7.21E-04	0.017590361
MP:0005010	abnormal CD8-positive T cell morphology	7.26E-04	0.017668269
GO:0003712	transcription cofactor activity	7.36E-04	0.017822967
GO:0006509	membrane protein ectodomain proteolysis	7.35E-04	0.017865707
GO:0032609	interferon-gamma production	7.55E-04	0.018095238
KEGG_ALLOGRAFT_REJECTION	KEGG_ALLOGRAFT_REJECTION	7.54E-04	0.018138425
ENSG00000107643	MAPK8 subnetwork	7.62E-04	0.018364929
MP:0005154	increased B cell proliferation	7.70E-04	0.018396226
KEGG_JAK_STAT_SIGNALING_PAT	KEGG_JAK_STAT_SIGNALING_PATHWAY	7.60E-04	0.018408551
ENSG00000165732	DDX21 subnetwork	7.66E-04	0.018439716
ENSG00000160712	IL6R subnetwork	7.75E-04	0.018588235
ENSG00000159388	BTG2 subnetwork	7.85E-04	0.018691589
ENSG00000117091	CD48 subnetwork	7.84E-04	0.018735363
REACTOME_ADAPTIVE_IMMUNE	REACTOME_ADAPTIVE_IMMUNE_SYSTEM	7.83E-04	0.018779343
GO:0001817	regulation of cytokine production	7.96E-04	0.018997669

MP:0008752	abnormal tumor necrosis factor level	7.97E-04	0.019069767
REACTOME_GAB1_SIGNALOSOME	REACTOME_GAB1_SIGNALOSOME	8.06E-04	0.019212963
MP:0000495	abnormal colon morphology	8.00E-04	0.019257541
ENSG00000112033	PPARD subnetwork	8.55E-04	0.019748858
ENSG00000145675	PIK3R1 subnetwork	8.51E-04	0.01979405
MP:0008050	decreased memory T cell number	8.57E-04	0.019817768
ENSG00000101017	CD40 subnetwork	8.47E-04	0.01983945
MP:0008560	increased tumor necrosis factor secretion	8.41E-04	0.019885057
MP:0005232	abnormal mesenteric lymph node morphology	8.37E-04	0.019930876
GO:0002764	immune response-regulating signaling pathway	8.30E-04	0.019976905
MP:0000717	abnormal lymphocyte cell number	9.09E-04	0.020267261
GO:0070201	regulation of establishment of protein localization	8.75E-04	0.020294785
ENSG00000049618	ARID1B subnetwork	9.08E-04	0.0203125
MP:0004974	decreased regulatory T cell number	8.74E-04	0.020340909
MP:0001829	increased activated T cell number	8.95E-04	0.020357942
KEGG_APOPTOSIS	KEGG_APOPTOSIS	8.79E-04	0.020361991
MP:0009543	abnormal thymus corticomedullary boundary morphology	8.93E-04	0.020403587
MP:0001194	dermatitis	8.90E-04	0.020449438
GO:0045622	regulation of T-helper cell differentiation	8.89E-04	0.020495495
MP:0005596	increased susceptibility to type I hypersensitivity reaction	8.86E-04	0.020541761
MP:0002875	decreased erythrocyte cell number	9.17E-04	0.020555556
ENSG00000137275	RIPK1 subnetwork	9.20E-04	0.020620843
GO:0042035	regulation of cytokine biosynthetic process	9.22E-04	0.020685841
GO:0002712	regulation of B cell mediated immunity	9.32E-04	0.020723684
MP:0002052	decreased tumor incidence	9.47E-04	0.02076087
ENSG00000085760	MTIF2 subnetwork	9.32E-04	0.020769231
GO:0032649	regulation of interferon-gamma production	9.41E-04	0.020787746
ENSG00000178363	CALML3 subnetwork	9.46E-04	0.0208061
ENSG00000137834	SMAD6 subnetwork	9.28E-04	0.020814978
ENSG00000123268	ATF1 subnetwork	9.44E-04	0.020851528
GO:0050730	regulation of peptidyl-tyrosine phosphorylation	9.25E-04	0.020860927
MP:0001845	abnormal inflammatory response	9.50E-04	0.020932755
ENSG00000174697	LEP subnetwork	9.56E-04	0.021166307
MP:0004939	abnormal B cell morphology	9.56E-04	0.021212121
ENSG00000074966	TXK subnetwork	9.62E-04	0.021290323
MP:0002357	abnormal spleen white pulp morphology	9.61E-04	0.021336207
ENSG00000077238	IL4R subnetwork	9.74E-04	0.021351931
GO:0042108	positive regulation of cytokine biosynthetic process	9.84E-04	0.021474359
ENSG00000012048	BRCA1 subnetwork	9.82E-04	0.021520343
GO:0050731	positive regulation of peptidyl-tyrosine phosphorylation	0.00100585	0.021641791
MP:0008826	abnormal splenic cell ratio	0.001013025	0.021656051
GO:0046637	regulation of alpha-beta T cell differentiation	0.001009887	0.021702128
MP:0002412	increased susceptibility to bacterial infection	0.001015669	0.021716102
ENSG00000125691	RPL23 subnetwork	0.001021808	0.021775899
REACTOME_DOWNSTREAM_TCR_SIGNALING	REACTOME_DOWNSTREAM_TCR_SIGNALING	0.001029263	0.021940928
KEGG_LEISHMANIA_INFECTION	KEGG_LEISHMANIA_INFECTION	0.001033612	0.022
ENSG000000215301	DDX3X subnetwork	0.001041585	0.0221174
GO:0032813	tumor necrosis factor receptor superfamily binding	0.00103925	0.022163866
GO:0009897	external side of plasma membrane	0.001046818	0.022280335
GO:0071345	cellular response to cytokine stimulus	0.001052788	0.022442589
ENSG00000156587	UBE2L6 subnetwork	0.001063371	0.022708333
REACTOME_PIP3_ACTIVATES_AKT_SIGNALING	REACTOME_PIP3_ACTIVATES_AKT_SIGNALING	0.001076098	0.023076923
MP:0011353	expanded mesangial matrix	0.001120198	0.02311609
ENSG00000108175	ZMIZ1 subnetwork	0.001080487	0.02313278

GO:0002757	immune response-activating signal transduction	0.001112978	0.023163265
ENSG00000101210	EEF1A2 subnetwork	0.001109745	0.023210634
ENSG00000203879	GDI1 subnetwork	0.001108868	0.023258197
ENSG00000171094	ALK subnetwork	0.001105904	0.023305955
MP:0008044	increased NK cell number	0.001102851	0.023353909
ENSG00000134460	IL2RA subnetwork	0.001102796	0.023402062
GO:0033365	protein localization to organelle	0.00110215	0.023450413
GO:0042094	interleukin-2 biosynthetic process	0.00109777	0.023498965
MP:0008466	enlarged mesenteric lymph nodes	0.001129562	0.023529412
GO:0046425	regulation of JAK-STAT cascade	0.001127107	0.023577236
ENSG00000134001	EIF2S1 subnetwork	0.001153625	0.023742455
GO:0002460	adaptive immune response based on somatic recombina	0.001152277	0.023790323
ENSG00000170581	STAT2 subnetwork	0.001147935	0.023838384
MP:0000479	abnormal enterocyte morphology	0.001145598	0.02388664
ENSG00000147403	RPL10 subnetwork	0.001166015	0.024096386
ENSG00000169083	AR subnetwork	0.001178903	0.024348697
ENSG00000113594	LIFR subnetwork	0.001192671	0.0247
REACTOME_TCR_SIGNALING	REACTOME_TCR_SIGNALING	0.001201636	0.024701195
ENSG00000114423	CBLB subnetwork	0.001201078	0.024750499
GO:0033209	tumor necrosis factor-mediated signaling pathway	0.001204393	0.024751491
MP:0000220	increased monocyte cell number	0.001219359	0.024753452
GO:0000989	transcription factor binding transcription factor activity	0.001214392	0.024802372
MP:0009788	increased susceptibility to bacterial infection induced mc	0.001224854	0.02480315
ENSG00000112214	FHL5 subnetwork	0.001214084	0.024851485
ENSG00000122756	CNTFR subnetwork	0.001228883	0.024852652
GO:0016447	somatic recombination of immunoglobulin gene segmen	0.001239408	0.024853229
MP:0004946	abnormal regulatory T cell physiology	0.001242869	0.024853801
ENSG00000142166	IFNAR1 subnetwork	0.001208172	0.024900794
ENSG00000115085	ZAP70 subnetwork	0.001233967	0.024901961
ENSG00000140443	IGF1R subnetwork	0.001240897	0.024902344
ENSG00000165806	CASP7 subnetwork	0.001251669	0.025193798
MP:0008208	decreased pro-B cell number	0.001247944	0.025194553
ENSG00000204628	GNB2L1 subnetwork	0.001248827	0.025242718
ENSG00000129473	BCL2L2 subnetwork	0.001295254	0.025673077
GO:0034612	response to tumor necrosis factor	0.001321798	0.025717017
ENSG00000137193	PIM1 subnetwork	0.001293902	0.025722543
MP:0002217	small lymph nodes	0.001325766	0.025763359
MP:0002359	abnormal spleen germinal center morphology	0.001319861	0.025766284
GO:0042826	histone deacetylase binding	0.001292417	0.025772201
ENSG00000172939	OXSRI subnetwork	0.001330106	0.025809524
ENSG00000187840	EIF4EBP1 subnetwork	0.001319099	0.025815739
ENSG00000177600	RPLP2 subnetwork	0.001288138	0.02582205
ENSG00000140395	WDR61 subnetwork	0.001354944	0.025901328
GO:0002020	protease binding	0.001341683	0.02595057
MP:0001870	salivary gland inflammation	0.001386615	0.026132075
MP:0008079	decreased CD8-positive T cell number	0.001365812	0.026136364
ENSG00000106682	EIF4H subnetwork	0.0013884	0.026177024
GO:0004896	cytokine receptor activity	0.001381244	0.026181474
MP:0002022	increased lymphoma incidence	0.001410967	0.026454034
ENSG00000101076	HNF4A subnetwork	0.001405276	0.026503759
MP:0003799	impaired macrophage chemotaxis	0.001413489	0.026685393
GO:0050866	negative regulation of cell activation	0.001428801	0.02682243
KEGG_CYTOKINE_CYTOKINE_RECI	KEGG_CYTOKINE_CYTOKINE_RECEPTOR_INTERACTION	0.001443766	0.026951673
ENSG00000110395	CBL subnetwork	0.001436858	0.026958955

REACTOME_CYTOKINE_SIGNALING	REACTOME_CYTOKINE_SIGNALING_IN_IMMUNE_SYSTEM	0.001442542	0.027001862
GO:0051170	nuclear import	0.001455987	0.027179963
GO:0015026	coreceptor activity	0.00146037	0.027222222
ENSG00000168685	IL7R subnetwork	0.001477848	0.027306273
ENSG00000082512	TRAF5 subnetwork	0.001474287	0.027356747
ENSG00000113580	NR3C1 subnetwork	0.001485073	0.027481618
ENSG00000169047	IRS1 subnetwork	0.001483371	0.027532228
ENSG00000134470	IL15RA subnetwork	0.001500929	0.028062157
MP:0005042	abnormal level of surface class II molecules	0.001495057	0.028073394
ENSG00000123329	ARHGAP9 subnetwork	0.001499429	0.028113553
ENSG00000073584	SMARCE1 subnetwork	0.001525127	0.02831216
ENSG00000140009	ESR2 subnetwork	0.001528574	0.028351449
GO:0016444	somatic cell DNA recombination	0.001524098	0.028363636
GO:0002562	somatic diversification of immune receptors via germline	0.001524098	0.028415301
ENSG00000149269	PAK1 subnetwork	0.001536448	0.028429603
GO:0002706	regulation of lymphocyte mediated immunity	0.001516689	0.028467153
ENSG00000112658	SRF subnetwork	0.001535827	0.028481013
ENSG00000175197	DDIT3 subnetwork	0.00154455	0.028558559
GO:0045076	regulation of interleukin-2 biosynthetic process	0.001556326	0.028815081
GO:0001819	positive regulation of cytokine production	0.001554597	0.028866906
MP:0009542	decreased thymocyte apoptosis	0.001589153	0.028914591
ENSG00000134352	IL6ST subnetwork	0.001577354	0.028928571
MP:0001802	arrested B cell differentiation	0.001588109	0.028966132
ENSG00000160014	CALM3 subnetwork	0.001606842	0.028975265
ENSG00000171720	HDAC3 subnetwork	0.001575754	0.028980322
ENSG00000143933	CALM2 subnetwork	0.001606842	0.029026549
ENSG00000105976	MET subnetwork	0.001568842	0.029032258
ENSG00000198087	CD2AP subnetwork	0.001603558	0.029040853
ENSG00000198668	CALM1 subnetwork	0.001606842	0.029078014
ENSG00000137070	IL11RA subnetwork	0.001622674	0.029210526
ENSG00000206452	HLA-C subnetwork	0.001616349	0.029225352
ENSG00000145623	OSMR subnetwork	0.001622674	0.029261863
GO:0051052	regulation of DNA metabolic process	0.001614083	0.029276896
ENSG00000010610	CD4 subnetwork	0.00163543	0.029422067
GO:0018108	peptidyl-tyrosine phosphorylation	0.001644246	0.02972028
ENSG00000141510	TP53 subnetwork	0.001662151	0.02973913
MP:0000488	abnormal intestinal epithelium morphology	0.001659955	0.029790941
MP:0002420	abnormal adaptive immunity	0.001658336	0.029842932
MP:0008735	increased susceptibility to endotoxin shock	0.00166543	0.029861111
GO:0050688	regulation of defense response to virus	0.001694184	0.029896907
ENSG00000131724	IL13RA1 subnetwork	0.001695745	0.029931389
ENSG00000206328	ENSG00000206328 subnetwork	0.001692082	0.029948365
MP:0001718	abnormal visceral yolk sac morphology	0.001697943	0.029965753
ENSG00000206439	TNF subnetwork	0.001692082	0.03
ENSG00000204490	TNF subnetwork	0.001692082	0.030051813
MP:0002375	abnormal thymus medulla morphology	0.001711589	0.030068143
ENSG00000107175	CREB3 subnetwork	0.001683703	0.030103806
ENSG00000197063	MAFG subnetwork	0.001708544	0.030119454
GO:0046427	positive regulation of JAK-STAT cascade	0.001676183	0.030155979
MP:0003850	abnormal thymocyte activation	0.00170342	0.03017094
MP:0002339	abnormal lymph node morphology	0.001721904	0.030272109
GO:0005164	tumor necrosis factor receptor binding	0.001726868	0.030390492
GO:0001783	B cell apoptotic process	0.001732424	0.030626058
GO:0045621	positive regulation of lymphocyte differentiation	0.00173199	0.030677966

GO:0003713	transcription coactivator activity	0.001751704	0.030775717
ENSG00000140396	NCOA2 subnetwork	0.001750821	0.030827703
GO:0042107	cytokine metabolic process	0.001769304	0.030976431
ENSG00000141736	ERBB2 subnetwork	0.001777224	0.031008403
ENSG00000162594	IL23R subnetwork	0.001819507	0.031666667
GO:0016922	ligand-dependent nuclear receptor binding	0.001797823	0.031711409
ENSG00000163599	CTLA4 subnetwork	0.00181723	0.031719533
ENSG00000114391	RPL24 subnetwork	0.001815338	0.031772575
GO:0002822	regulation of adaptive immune response based on soma	0.001811883	0.031825796
GO:0042089	cytokine biosynthetic process	0.001837897	0.031946755
GO:0002252	immune effector process	0.001848732	0.03230897
ENSG00000124334	IL9R subnetwork	0.001863319	0.032504146
ENSG00000096996	IL12RB1 subnetwork	0.001886619	0.032590759
GO:0050869	negative regulation of B cell activation	0.001883541	0.032644628
GO:0006606	protein import into nucleus	0.001876838	0.032698675
GO:0002573	myeloid leukocyte differentiation	0.001896466	0.032976974
ENSG00000081985	IL12RB2 subnetwork	0.001891037	0.033031301
GO:0034097	response to cytokine stimulus	0.001899985	0.03316913
ENSG00000080824	HSP90AA1 subnetwork	0.001938956	0.033770492
GO:0002449	lymphocyte mediated immunity	0.001942445	0.033797054
GO:0001934	positive regulation of protein phosphorylation	0.001949276	0.033905229
ENSG00000112208	BAG2 subnetwork	0.001968696	0.034257749
ENSG00000163932	PRKCD subnetwork	0.001977579	0.034446254
GO:0051019	mitogen-activated protein kinase binding	0.001980839	0.034471545
ENSG00000198576	ARC subnetwork	0.001993753	0.034577922
MP:0008135	small Peyer's patches	0.001998426	0.034683955
MP:0005343	increased circulating aspartate transaminase level	0.002007392	0.034708738
ENSG00000206218	ENSG00000206218 subnetwork	0.002027995	0.035048232
ENSG00000100385	IL2RB subnetwork	0.002022527	0.035056543
ENSG00000206289	RXRb subnetwork	0.002027995	0.03510467
ENSG00000204231	RXRb subnetwork	0.002027995	0.03516129
GO:0031347	regulation of defense response	0.002038876	0.035232745
ENSG00000169682	SPNS1 subnetwork	0.002057824	0.035303514
ENSG00000117400	MPL subnetwork	0.002051969	0.03536
ENSG00000115053	NCL subnetwork	0.002063456	0.035406699
GO:0002700	regulation of production of molecular mediator of immu	0.002047039	0.035416667
GO:0002377	immunoglobulin production	0.002070725	0.035509554
ENSG00000056972	TRAF3IP2 subnetwork	0.002105457	0.035759494
KEGG_CHRONIC_MYELOID_LEUK	KEGG_CHRONIC_MYELOID_LEUKEMIA	0.002111547	0.035781991
ENSG00000170889	RPS9 subnetwork	0.002099789	0.035816165
ENSG00000112290	WASF1 subnetwork	0.002124986	0.035849057
ENSG00000159128	IFNGR2 subnetwork	0.002096552	0.035850556
MP:0008661	decreased interleukin-10 secretion	0.00209965	0.035873016
REACTOME_INTERLEUKIN:7_SIGN	REACTOME_INTERLEUKIN:7_SIGNALING	0.002122713	0.035905512
ENSG00000126934	MAP2K2 subnetwork	0.002122553	0.035962145
ENSG00000109320	NFKB1 subnetwork	0.0021382	0.036263736
KEGG_DORSO_VENTRAL_AXIS_FC	KEGG_DORSO_VENTRAL_AXIS_FORMATION	0.002144587	0.036442006
GO:0002703	regulation of leukocyte mediated immunity	0.002153759	0.036619718
GO:0000988	protein binding transcription factor activity	0.002164508	0.036640625
GO:0022415	viral reproductive process	0.002172641	0.036682243
ENSG00000159110	IFNAR2 subnetwork	0.002169893	0.03673947
ENSG00000078900	TP73 subnetwork	0.002200723	0.036858476
GO:0018212	peptidyl-tyrosine modification	0.002203554	0.036956522
ENSG00000110324	IL10RA subnetwork	0.002227659	0.037171561

ENSG00000185291	IL3RA subnetwork	0.00223223	0.037211094
ENSG00000159113	ENSG00000159113 subnetwork	0.00222641	0.037229102
ENSG00000168884	TNIP2 subnetwork	0.002231611	0.037268519
GO:0051054	positive regulation of DNA metabolic process	0.002215848	0.037286822
ENSG00000108773	KAT2A subnetwork	0.002248501	0.037615385
MP:0000208	decreased hematocrit	0.002260364	0.037941628
GO:0008234	cysteine-type peptidase activity	0.002279069	0.038190184
GO:0045334	clathrin-coated endocytic vesicle	0.002291464	0.03820827
GO:0002208	somatic diversification of immunoglobulins involved in ir	0.002316191	0.038328313
GO:0005125	cytokine activity	0.002321839	0.038345865
ENSG00000215292	ENSG00000215292 subnetwork	0.002314565	0.038350983
MP:0003156	abnormal leukocyte migration	0.002297859	0.038379205
GO:0045190	isotype switching	0.002316191	0.038386124
ENSG00000204389	HSPA1A subnetwork	0.002314565	0.038409091
GO:0002204	somatic recombination of immunoglobulin genes involve	0.002316191	0.038444109
ENSG00000204388	HSPA1B subnetwork	0.002314565	0.038467375
GO:0046635	positive regulation of alpha-beta T cell activation	0.002307067	0.038473282
ENSG00000212860	ENSG00000212860 subnetwork	0.002314565	0.038525836
ENSG00000212866	HSPA1B subnetwork	0.002314565	0.038584475
ENSG00000141655	TNFRSF11A subnetwork	0.002341034	0.038588589
ENSG00000112964	GHR subnetwork	0.002310308	0.038643293
MP:0008479	decreased spleen white pulp amount	0.002372376	0.038673621
MP:0009503	abnormal mammary gland duct morphology	0.002367407	0.038731343
REACTOME_DEATH_RECEPTOR__	REACTOME_DEATH_RECEPTOR__SIGNALLING	0.002364447	0.038789238
ENSG00000185436	IL28RA subnetwork	0.002395376	0.038831361
REACTOME_EXTRINSIC_PATHWAY	REACTOME_EXTRINSIC_PATHWAY_FOR_APOPTOSIS	0.002364447	0.038847305
GO:0002831	regulation of response to biotic stimulus	0.002390618	0.038872404
GO:0045620	negative regulation of lymphocyte differentiation	0.002392702	0.038888889
ENSG00000005007	UPF1 subnetwork	0.002360781	0.038905547
GO:0004713	protein tyrosine kinase activity	0.002389246	0.038930163
MP:0005026	decreased susceptibility to parasitic infection	0.002387799	0.038988095
ENSG00000185651	UBE2L3 subnetwork	0.002407768	0.039069424
ENSG00000138814	PPP3CA subnetwork	0.002477044	0.039809384
GO:0051223	regulation of protein transport	0.002452338	0.039823009
ENSG00000156482	RPL30 subnetwork	0.002472855	0.039867841
MP:0001846	increased inflammatory response	0.002503636	0.039883552
GO:0045121	membrane raft	0.002467557	0.039911635
REACTOME_INTRINSIC_PATHWAY	REACTOME_INTRINSIC_PATHWAY_FOR_APOPTOSIS	0.002530989	0.039912917
MP:0001246	mixed cellular infiltration to dermis	0.002471124	0.039926471
ENSG00000184779	RPS17 subnetwork	0.002496578	0.039941691
MP:0004969	pale kidney	0.002515884	0.03997093
MP:0002024	T cell derived lymphoma	0.002485774	0.03998538
ENSG00000182774	RPS17L subnetwork	0.002496578	0.04
REACTOME_THE_ROLE_OF_NEF	REACTOME_THE_ROLE_OF_NEF_IN_HIV:1_REPLICATION	0.002484023	0.040043924
ENSG00000025800	KPNA6 subnetwork	0.002549877	0.040289855
GO:0050778	positive regulation of immune response	0.002583363	0.040359712
ENSG00000123496	IL13RA2 subnetwork	0.002582358	0.040417867
GO:0051247	positive regulation of protein metabolic process	0.002576073	0.040448625
ENSG00000103522	IL21R subnetwork	0.002582358	0.04047619
ENSG00000164485	IL22RA2 subnetwork	0.002582358	0.040534682
ENSG00000185950	IRS2 subnetwork	0.002601971	0.041104735
MP:0004992	increased bone resorption	0.002601334	0.041163793
ENSG00000016402	IL20RA subnetwork	0.00261819	0.041260745
GO:0034504	protein localization to nucleus	0.002626602	0.041273247

ENSG00000110330	BIRC2 subnetwork	0.002695777	0.041430595
ENSG00000067606	PRKCZ subnetwork	0.00268215	0.041465149
MP:0001847	brain inflammation	0.002692713	0.041489362
ENSG00000115953	ENSG00000115953 subnetwork	0.002654346	0.0415
ENSG00000107968	MAP3K8 subnetwork	0.002660791	0.041512126
ENSG00000066336	SPI1 subnetwork	0.002674244	0.041524217
ENSG00000165025	SYK subnetwork	0.002691033	0.041548295
ENSG00000065883	CDK13 subnetwork	0.002714842	0.04165488
GO:0019900	kinase binding	0.002726596	0.04180791
MP:0004076	abnormal vitelline vascular remodeling	0.002735218	0.041819464
MP:0004185	abnormal adipocyte glucose uptake	0.002780103	0.042237762
ENSG00000142677	IL22RA1 subnetwork	0.002764709	0.042264416
MP:0002406	increased susceptibility to infection	0.002779891	0.042296919
GO:0002200	somatic diversification of immune receptors	0.002763632	0.042323944
ENSG00000027697	IFNGR1 subnetwork	0.002789713	0.042329149
MP:0005089	decreased double-negative T cell number	0.002798287	0.042339833
REACTOME_MTOR_SIGNALLING	REACTOME_MTOR_SIGNALLING	0.002776377	0.042356241
ENSG00000100351	GRAP2 subnetwork	0.002787333	0.042388268
GO:0004709	MAP kinase kinase kinase activity	0.002774072	0.04241573
MP:0002723	abnormal immune serum protein physiology	0.002833012	0.042628651
ENSG00000163823	CCR1 subnetwork	0.002851502	0.042916667
ENSG00000130255	RPL36 subnetwork	0.002864084	0.043065187
ENSG00000151846	PABPC3 subnetwork	0.002884879	0.043767313
ENSG00000102882	MAPK3 subnetwork	0.002901131	0.043775934
ENSG00000113494	PRLR subnetwork	0.002914107	0.044060773
ENSG00000110700	RPS13 subnetwork	0.002930823	0.044077135
GO:0051169	nuclear transport	0.002958022	0.044109589
GO:0006913	nucleocytoplasmic transport	0.002921755	0.044137931
REACTOME_PI3K_EVENTS_IN_ER	REACTOME_PI3K_EVENTS_IN_ERBB4_SIGNALING	0.002952633	0.044170096
ENSG00000212981	ENSG00000212981 subnetwork	0.002943291	0.044222834
ENSG00000101665	SMAD7 subnetwork	0.002951987	0.044230769
MP:0008024	absent lymph nodes	0.002978903	0.044254446
MP:0010026	decreased liver cholesterol level	0.002986913	0.044467213
GO:0004197	cysteine-type endopeptidase activity	0.00300094	0.044815825
MP:0005659	decreased susceptibility to diet-induced obesity	0.003041882	0.045034014
REACTOME_DARPP:32_EVENTS	REACTOME_DARPP:32_EVENTS	0.003037227	0.045095368
ENSG00000186951	PPARA subnetwork	0.003047564	0.04517663
REACTOME_PI3K_EVENTS_IN_ER	REACTOME_PI3K_EVENTS_IN_ERBB2_SIGNALING	0.003067533	0.045725916
ENSG00000077097	TOP2B subnetwork	0.003070201	0.045731707
GO:0030155	regulation of cell adhesion	0.003114822	0.045872801
ENSG00000185591	SP1 subnetwork	0.003131315	0.046153846
KEGG_TYPE_I_DIABETES_MELLITUS	KEGG_TYPE_I_DIABETES_MELLITUS	0.003147623	0.04615903
ENSG00000143384	MCL1 subnetwork	0.003128601	0.046216216
MP:0003333	liver fibrosis	0.003163665	0.046567968
GO:0002443	leukocyte mediated immunity	0.003191921	0.046639785
ENSG00000173039	RELA subnetwork	0.003206985	0.046711409
GO:0045727	positive regulation of translation	0.003259425	0.047520107
GO:0045582	positive regulation of T cell differentiation	0.003263857	0.047523427
MP:0003179	decreased platelet cell number	0.003293572	0.047666667
MP:0008687	increased interleukin-2 secretion	0.003285993	0.047727273
ENSG00000023445	BIRC3 subnetwork	0.003289397	0.047730307
MP:0008703	decreased interleukin-5 secretion	0.003321743	0.047869507
ENSG00000168310	IRF2 subnetwork	0.003381515	0.048470745
ENSG00000088367	EPB41L1 subnetwork	0.003396101	0.048541114

GO:0001782	B cell homeostasis	0.003393759	0.048605578
GO:0019058	viral infectious cycle	0.003404747	0.048675497
ENSG00000049283	EPN3 subnetwork	0.0034253	0.048677249
GO:0007259	JAK-STAT cascade	0.003436803	0.048745046
ENSG000000213341	CHUK subnetwork	0.003469403	0.048878628
REACTOME_DEADENYLATION_OF	REACTOME_DEADENYLATION_OF_MRNA	0.003478213	0.048880105
ENSG00000082074	FYB subnetwork	0.003510415	0.049210526
ENSG000000187555	USP7 subnetwork	0.003522492	0.04934297
MP:0000333	decreased bone marrow cell number	0.003542333	0.049737533
MP:0001120	abnormal uterus morphology	0.003559883	0.049803922
REACTOME_NGF_SIGNALLING_VI	REACTOME_NGF_SIGNALLING_VIA_TRKA_FROM_THE_P	0.003571959	0.049804433
ENSG000000123411	IKZF4 subnetwork	0.003551717	0.049868938
ENSG000000165030	NFIL3 subnetwork	0.003557542	0.04986911
MP:0002455	abnormal dendritic cell antigen presentation	0.003567512	0.049869452
MP:0002396	abnormal hematopoietic system morphology/developm	0.003614081	0.050260078
ENSG000000167601	AXL subnetwork	0.00361075	0.050325521
ENSG000000056558	TRAF1 subnetwork	0.003678622	0.051232166
ENSG000000137841	PLCB2 subnetwork	0.003677118	0.051233766
GO:0060055	angiogenesis involved in wound healing	0.003696406	0.05142487
ENSG000000173153	ESRRA subnetwork	0.003761445	0.051732991
MP:0008597	decreased circulating interleukin-6 level	0.003750113	0.051737452
GO:0070664	negative regulation of leukocyte proliferation	0.003745369	0.051739691
ENSG000000101109	STK4 subnetwork	0.003743548	0.051741935
ENSG000000066027	PPP2R5A subnetwork	0.003735785	0.051746442
MP:0002418	increased susceptibility to viral infection	0.003756988	0.051799486
ENSG000000128656	CHN1 subnetwork	0.003742145	0.051808786
ENSG000000038358	EDC4 subnetwork	0.003806167	0.052046036
REACTOME_SIGNALING_BY_ERBB	REACTOME_SIGNALING_BY_ERBB4	0.003801989	0.052051282
ENSG000000130811	EIF3G subnetwork	0.003804652	0.052112676
GO:0002253	activation of immune response	0.003825233	0.052295918
ENSG000000132382	MYBBP1A subnetwork	0.003823096	0.052298851
MP:0009347	increased trabecular bone thickness	0.003849894	0.052484076
MP:0004803	increased susceptibility to autoimmune diabetes	0.003861423	0.052608142
GO:0002381	immunoglobulin production involved in immunoglobulin	0.00387776	0.052728426
ENSG000000072062	PRKACA subnetwork	0.003873865	0.052731893
MP:0002419	abnormal innate immunity	0.003908998	0.053231939
ENSG000000160691	SHC1 subnetwork	0.003962455	0.053860759
ENSG000000125686	MED1 subnetwork	0.003991029	0.054292929
ENSG000000178982	EIF3K subnetwork	0.003988374	0.054298357
MP:0001928	abnormal ovulation	0.003995514	0.054350567
MP:0004787	abnormal dorsal aorta morphology	0.004017181	0.054722922
ENSG000000119535	CSF3R subnetwork	0.004049854	0.055345912
ENSG000000198223	CSF2RA subnetwork	0.004083158	0.055897114
ENSG000000091181	IL5RA subnetwork	0.004081748	0.055967337
MP:0008664	decreased interleukin-12 secretion	0.004116956	0.056758448
ENSG000000116560	SFPQ subnetwork	0.004109708	0.056766917
ENSG000000100368	CSF2RB subnetwork	0.004126787	0.0569375
ENSG000000162290	ENSG000000162290 subnetwork	0.004169537	0.057285181
ENSG000000169062	UPF3A subnetwork	0.004168227	0.057356608
ENSG000000166170	BAG5 subnetwork	0.004193683	0.057382134
ENSG000000083845	RPS5 subnetwork	0.004186716	0.057391304
GO:0032633	interleukin-4 production	0.004158777	0.057428215
ENSG000000116678	LEPR subnetwork	0.004186332	0.057462687
ENSG000000140464	PML subnetwork	0.004279036	0.058281829

GO:0051222	positive regulation of protein transport	0.004272429	0.05835396
GO:0030890	positive regulation of B cell proliferation	0.00427045	0.05842627
ENSG00000137379	ENSG00000137379 subnetwork	0.00430557	0.058435961
ENSG00000196230	TUBB subnetwork	0.00430557	0.058508015
ENSG00000183311	TUBB subnetwork	0.00430557	0.058580247
GO:0042088	T-helper 1 type immune response	0.004390912	0.058834356
MP:0002078	abnormal glucose homeostasis	0.004426832	0.058852259
MP:0008750	abnormal interferon level	0.004367679	0.058856089
MP:0002032	sarcoma	0.004387567	0.058906634
MP:0002389	abnormal Peyer's patch follicle morphology	0.004425526	0.058924205
ENSG00000206088	ENSG00000206088 subnetwork	0.004446104	0.058963415
ENSG00000150455	TIRAP subnetwork	0.004421714	0.058996328
ENSG00000121774	KHDRBS1 subnetwork	0.004417735	0.059068627
GO:0045639	positive regulation of myeloid cell differentiation	0.004474935	0.0590743
MP:0008076	abnormal CD4-positive T cell differentiation	0.004512129	0.059428224
ENSG00000147677	EIF3H subnetwork	0.004517638	0.059538275
ENSG00000100906	NFKBIA subnetwork	0.004524208	0.059587379
ENSG00000206279	DAXX subnetwork	0.004620392	0.060288809
ENSG00000198033	TUBA3C subnetwork	0.004581051	0.060290557
GO:0046640	regulation of alpha-beta T cell proliferation	0.00458958	0.060338573
ENSG00000206206	DAXX subnetwork	0.004620392	0.060361446
ENSG00000075886	TUBA3D subnetwork	0.004581051	0.060363636
ENSG00000204209	DAXX subnetwork	0.004620392	0.060434258
MP:0001770	abnormal iron level	0.004617488	0.060507246
GO:0071356	cellular response to tumor necrosis factor	0.004648544	0.060637019
ENSG00000134242	PTPN22 subnetwork	0.00466028	0.060744298
ENSG00000186879	ENSG00000186879 subnetwork	0.004694688	0.061270983
ENSG00000183763	TRAIIP subnetwork	0.004717284	0.06135006
ENSG00000153827	TRIP12 subnetwork	0.004708221	0.061363636
GO:0046777	protein autophosphorylation	0.004704167	0.061377246
GO:0048535	lymph node development	0.004748722	0.061382598
MP:0005554	decreased circulating creatinine level	0.004728808	0.061396181
KEGG_CHEMOKINE_SIGNALING_PATHWAY	KEGG_CHEMOKINE_SIGNALING_PATHWAY	0.004765279	0.06172619
ENSG00000100030	MAPK1 subnetwork	0.004802224	0.062187872
ENSG00000105447	GRWD1 subnetwork	0.004833012	0.062529691
MP:0009339	decreased splenocyte number	0.004852193	0.062618483
MP:0004919	abnormal positive T cell selection	0.004882296	0.062676887
ENSG00000145715	RASA1 subnetwork	0.00487711	0.062691854
REACTOME_PI3KAKT_ACTIVATION	REACTOME_PI3KAKT_ACTIVATION	0.004850794	0.062692764
GO:0048302	regulation of isotype switching to IgG isotypes	0.004866339	0.062706856
MP:0009763	increased sensitivity to induced morbidity/mortality	0.004864633	0.062781065
ENSG00000135930	EIF4E2 subnetwork	0.004912176	0.063117647
ENSG00000134419	RPS15A subnetwork	0.004912169	0.063191991
MP:0002452	abnormal antigen presenting cell physiology	0.004932516	0.063396005
GO:0070851	growth factor receptor binding	0.004986063	0.063668224
ENSG00000127314	RAP1B subnetwork	0.004982456	0.063684211
MP:0005153	abnormal B cell proliferation	0.004970717	0.063716295
MP:0005312	pericardial effusion	0.004981913	0.063758782
ENSG00000011260	UTP18 subnetwork	0.004969611	0.06379108
MP:0008037	abnormal T cell morphology	0.005006552	0.064760793
GO:0033619	membrane protein proteolysis	0.005021457	0.06497669
ENSG00000115145	STAM2 subnetwork	0.005040168	0.065075669
MP:0008182	decreased marginal zone B cell number	0.00511	0.065872093
MP:0000493	rectal prolapse	0.005124718	0.065893271

MP:0009336	increased splenocyte proliferation	0.005122604	0.065969803
MP:0011427	mesangial cell hyperplasia	0.005137271	0.066048667
REACTOME_NEF:MEDIATES_DOWN	REACTOME_NEF:MEDIATES_DOWN_MODULATION_OF_	0.005153873	0.066203704
ENSG00000089009	RPL6 subnetwork	0.0051828	0.066339492
GO:0071214	cellular response to abiotic stimulus	0.005200461	0.066378316
ENSG00000180733	ENSG00000180733 subnetwork	0.005180047	0.066416185
ENSG00000174444	RPL4 subnetwork	0.005208802	0.066417051
ENSG00000136156	ITM2B subnetwork	0.005245076	0.066685846
ENSG00000087088	BAX subnetwork	0.005261334	0.066704937
ENSG00000052723	SIKE1 subnetwork	0.005250993	0.066724138
MP:0004751	increased length of allograft survival	0.005272604	0.066800459
MP:0009006	prolonged estrous cycle	0.005290895	0.066953036
ENSG00000173848	NET1 subnetwork	0.00532498	0.067371429
GO:0032663	regulation of interleukin-2 production	0.005312911	0.067391304
ENSG00000187266	EPOR subnetwork	0.005348922	0.067522831
GO:0002768	immune response-regulating cell surface receptor signal	0.005382293	0.067613636
GO:0042327	positive regulation of phosphorylation	0.005369612	0.067653759
MP:0001219	thick epidermis	0.005379517	0.067690557
MP:0004151	decreased circulating iron level	0.0053688	0.067730901
MP:0001272	increased metastatic potential	0.005407028	0.067913832
ENSG00000141480	ARRB2 subnetwork	0.005402862	0.067990919
ENSG00000198911	SREBF2 subnetwork	0.00542706	0.068006795
KEGG_ERBB_SIGNALING_PATHWAY	KEGG_ERBB_SIGNALING_PATHWAY	0.005479898	0.068700565
ENSG00000138385	SSB subnetwork	0.005478223	0.068778281
ENSG00000105851	PIK3CG subnetwork	0.005487984	0.068792325
GO:0002440	production of molecular mediator of immune response	0.005523508	0.069222097
MP:0001793	altered susceptibility to infection	0.005536049	0.069313063
ENSG00000159692	CTBP1 subnetwork	0.005563581	0.069606742
MP:0008181	increased marginal zone B cell number	0.005567405	0.069640853
ENSG00000142534	RPS11 subnetwork	0.005563249	0.069685039
ENSG00000112062	MAPK14 subnetwork	0.005593471	0.069820829
ENSG00000103197	TSC2 subnetwork	0.005590856	0.069899103
GO:0002467	germinal center formation	0.005651784	0.070134228
GO:0017038	protein import	0.0056615	0.070223464
GO:0016445	somatic diversification of immunoglobulins	0.005687666	0.070591518
GO:0045581	negative regulation of T cell differentiation	0.005704502	0.070680045
ENSG00000196911	KPNA5 subnetwork	0.005734738	0.070935412
ENSG00000110931	CAMKK2 subnetwork	0.005746499	0.071078977
ENSG00000173486	FKBP2 subnetwork	0.005751782	0.071166667
MP:0002705	dilated renal tubules	0.005760662	0.071198668
MP:0000240	extramedullary hematopoiesis	0.005898194	0.072560976
ENSG00000206294	ENSG00000206294 subnetwork	0.005931453	0.072646733
GO:0050852	T cell receptor signaling pathway	0.005956989	0.073064159
ENSG00000108561	C1QBP subnetwork	0.005995508	0.073480663
MP:0003644	thymus atrophy	0.006018874	0.07384106
GO:0042974	retinoic acid receptor binding	0.006027703	0.074035281
ENSG00000154582	TCEB1 subnetwork	0.006034605	0.074063877
ENSG00000196313	POM121 subnetwork	0.006087653	0.07469747
ENSG00000157168	NRG1 subnetwork	0.006099412	0.07478022
MP:0001869	pancreas inflammation	0.006145634	0.074917673
GO:0050792	regulation of viral reproduction	0.006148765	0.075
ENSG00000152689	RASGRP3 subnetwork	0.006167163	0.075136911
REACTOME_CIRCADIAN_CLOCK	REACTOME_CIRCADIAN_CLOCK	0.006182968	0.075492341
GO:0042516	regulation of tyrosine phosphorylation of Stat3 protein	0.006240831	0.075846995

MP:0000628	abnormal mammary gland development	0.006272629	0.076091703
KEGG_PRIMARY_IMMUNODEFICI	KEGG_PRIMARY_IMMUNODEFICIENCY	0.006292383	0.076117775
MP:0001245	thick dermal layer	0.006330932	0.076605005
ENSG00000131759	RARA subnetwork	0.006329747	0.076688453
KEGG_MTOR_SIGNALING_PATHW	KEGG_MTOR_SIGNALING_PATHWAY	0.006397122	0.077361564
ENSG00000123908	EIF2C2 subnetwork	0.006391782	0.077445652
ENSG00000129460	NGDN subnetwork	0.006418433	0.077603037
REACTOME_PD:1_SIGNALING	REACTOME_PD:1_SIGNALING	0.006503195	0.078216216
MP:0003449	abnormal intestinal goblet cell morphology	0.006480572	0.078223185
GO:0051427	hormone receptor binding	0.006501816	0.078300866
MP:0005416	abnormal circulating protein level	0.006517014	0.078725702
ENSG00000122025	FLT3 subnetwork	0.006556476	0.078856526
REACTOME_DOWNSTREAM_SIGN	REACTOME_DOWNSTREAM_SIGNALING_OF_ACTIVATED	0.006566772	0.078987069
ENSG00000138794	CASP6 subnetwork	0.006598702	0.079547901
ENSG00000146648	EGFR subnetwork	0.006655927	0.080268817
MP:0003718	maternal effect	0.006695153	0.080827068
ENSG00000118513	MYB subnetwork	0.00673056	0.080975348
KEGG_NATURAL_KILLER_CELL_MI	KEGG_NATURAL_KILLER_CELL_MEDIATED_CYTOTOXICIT	0.006711824	0.081062232
MP:0008217	abnormal B cell activation	0.00678853	0.081798715
GO:0002902	regulation of B cell apoptotic process	0.00683697	0.082264957
ENSG00000096060	FKBP5 subnetwork	0.006850838	0.082302772
ENSG00000153879	CEBPG subnetwork	0.006829643	0.082352941
ENSG00000206293	ENSG00000206293 subnetwork	0.006878298	0.082359192
GO:0044419	interspecies interaction between organisms	0.006847792	0.082390608
ENSG00000206229	ENSG00000206229 subnetwork	0.006878298	0.082446809
GO:0008134	transcription factor binding	0.006909575	0.082449629
GO:0042503	tyrosine phosphorylation of Stat3 protein	0.00690583	0.082484076
ENSG00000204257	HLA-DMA subnetwork	0.006878298	0.082534611
GO:0051607	defense response to virus	0.00694538	0.082838983
KEGG_PROSTATE_CANCER	KEGG_PROSTATE_CANCER	0.007051574	0.083526927
GO:0002429	immune response-activating cell surface receptor signali	0.007048249	0.083562368
ENSG00000142539	SPIB subnetwork	0.007045165	0.083650794
MP:0005152	pancytopenia	0.007079722	0.084124473
MP:0002461	increased immunoglobulin level	0.007107038	0.084263158
ENSG00000142937	RPS8 subnetwork	0.007102403	0.084299262
MP:0005025	abnormal response to infection	0.007128851	0.084384858
MP:0001505	hunched posture	0.007149663	0.084417629
GO:0009896	positive regulation of catabolic process	0.007149619	0.084506303
MP:0003944	abnormal T cell subpopulation ratio	0.007202073	0.084853249
MP:0005553	increased circulating creatinine level	0.007221516	0.084921466
MP:0001716	abnormal placenta labyrinth morphology	0.00726362	0.085198745
ENSG00000111802	TDP2 subnetwork	0.007279442	0.085370951
ENSG00000145425	RPS3A subnetwork	0.007304963	0.08546875
ENSG00000101773	RBBP8 subnetwork	0.007297727	0.085557873
GO:0002699	positive regulation of immune effector process	0.007295036	0.08559499
MP:0008098	decreased plasma cell number	0.00733289	0.085639958
MP:0008723	impaired eosinophil recruitment	0.00737179	0.086070686
MP:0002962	increased urine protein level	0.007412216	0.086604361
ENSG00000198821	CD247 subnetwork	0.00744905	0.086749482
ENSG00000116478	HDAC1 subnetwork	0.007420618	0.086773859
ENSG00000117560	FASLG subnetwork	0.007448271	0.086839378
ENSG00000161570	CCL5 subnetwork	0.007476417	0.086983471
REACTOME_PHOSPHORYLATION	REACTOME_PHOSPHORYLATION_OF_CD3_AND_TCR_ZE	0.007488894	0.086996904
ENSG00000203283	ENSG00000203283 subnetwork	0.007476417	0.087073423

MP:0005166	decreased susceptibility to injury	0.007524675	0.087525773
ENSG00000075415	SLC25A3 subnetwork	0.007561862	0.087808642
ENSG00000175354	PTPN2 subnetwork	0.007556618	0.08784758
GO:0046633	alpha-beta T cell proliferation	0.007600285	0.088090349
MP:0003628	abnormal leukocyte adhesion	0.007586996	0.088129496
GO:0048291	isotype switching to IgG isotypes	0.007719202	0.088809766
ENSG00000138326	RPS24 subnetwork	0.007714359	0.088900204
ENSG00000152422	XRCC4 subnetwork	0.007691714	0.088928571
MP:0008127	decreased dendritic cell number	0.007710944	0.088939857
KEGG_AUTOIMMUNE_THYROID_	KEGG_AUTOIMMUNE_THYROID_DISEASE	0.007670614	0.088957055
KEGG_SMALL_CELL_LUNG_CANCER	KEGG_SMALL_CELL_LUNG_CANCER	0.007685716	0.088968335
ENSG00000115641	FHL2 subnetwork	0.007659641	0.088996929
ENSG00000124214	STAU1 subnetwork	0.007657425	0.089036885
ENSG00000162227	TAF6L subnetwork	0.007744762	0.089086294
ENSG00000171608	PIK3CD subnetwork	0.007742275	0.089126016
GO:0000956	nuclear-transcribed mRNA catabolic process	0.007657269	0.089128205
GO:0010608	posttranscriptional regulation of gene expression	0.007794867	0.089401623
GO:0006605	protein targeting	0.007825919	0.089817629
ENSG00000026103	FAS subnetwork	0.007871008	0.089818548
MP:0001853	heart inflammation	0.007840944	0.089827935
ENSG00000106299	WASL subnetwork	0.00786968	0.089909183
GO:0031341	regulation of cell killing	0.007884852	0.089979859
ENSG00000105197	TIMM50 subnetwork	0.007866396	0.09
ENSG00000187899	ENSG00000187899 subnetwork	0.007865271	0.090091001
MP:0008481	increased spleen germinal center number	0.007977446	0.090822467
GO:0032623	interleukin-2 production	0.007953444	0.09084507
ENSG00000171490	RSL1D1 subnetwork	0.007969782	0.090913655
ENSG00000184047	DIABLO subnetwork	0.007968481	0.090954774
REACTOME_PKB:MEDIATED_EVENTS	REACTOME_PKB:MEDIATED_EVENTS	0.008062846	0.091683367
MP:0005616	decreased susceptibility to type IV hypersensitivity react	0.008110607	0.092192192
GO:0070227	lymphocyte apoptotic process	0.008153094	0.09245
ENSG00000115415	STAT1 subnetwork	0.008214474	0.092807193
ENSG00000085511	MAP3K4 subnetwork	0.008227181	0.092914172
REACTOME_VIRAL_DSRNATLR3TR	REACTOME_VIRAL_DSRNATLR3TRIF_COMPLEX_ACTIVAT	0.008229687	0.092921236
ENSG00000213923	CSNK1E subnetwork	0.008248019	0.092978088
MP:0005566	decreased blood urea nitrogen level	0.008256877	0.092985075
GO:0004702	receptor signaling protein serine/threonine kinase activi	0.008303551	0.093389662
GO:0018024	histone-lysine N-methyltransferase activity	0.00833754	0.093694141
GO:0019901	protein kinase binding	0.008360417	0.09389881
MP:0003721	increased tumor growth/size	0.008372743	0.09395441
ENSG00000069399	BCL3 subnetwork	0.008387221	0.093960396
GO:0032729	positive regulation of interferon-gamma production	0.008402957	0.094015826
MP:0000512	intestinal ulcer	0.008409972	0.094021739
ENSG00000103275	UBE2I subnetwork	0.008472768	0.094471866
GO:0051044	positive regulation of membrane protein ectodomain pr	0.008473266	0.094477318
MP:0008828	abnormal lymph node cell ratio	0.008563643	0.095427729
GO:0050851	antigen receptor-mediated signaling pathway	0.0085489	0.095517241
ENSG00000118503	TNFAIP3 subnetwork	0.008562025	0.095521654
GO:0046625	sphingolipid binding	0.008611456	0.095776031
ENSG00000130382	MLLT1 subnetwork	0.008633576	0.095829244
ENSG00000159216	RUNX1 subnetwork	0.008651234	0.095833333
GO:0045937	positive regulation of phosphate metabolic process	0.008664437	0.095890411
GO:0010562	positive regulation of phosphorus metabolic process	0.008664437	0.095984329
MP:0002376	abnormal dendritic cell physiology	0.008705436	0.096187683

REACTOME_INTERFERON_GAMMA	REACTOME_INTERFERON_GAMMA_SIGNALING	0.008722318	0.096240234
ENSG00000132676	DAP3 subnetwork	0.008733734	0.096341463
GO:0042508	tyrosine phosphorylation of Stat1 protein	0.008738378	0.096345029
ENSG00000146232	NFKBIE subnetwork	0.008799837	0.096890185
GO:0034101	erythrocyte homeostasis	0.008799602	0.096984436
ENSG00000134107	BHLHE40 subnetwork	0.008795364	0.097030185
MP:0004031	insulitis	0.008837825	0.097038835
ENSG00000144713	RPL32 subnetwork	0.008850326	0.0971387
GO:0002437	inflammatory response to antigenic stimulus	0.008904194	0.097674419
GO:0031349	positive regulation of defense response	0.008926838	0.097773475
GO:0043900	regulation of multi-organism process	0.008981162	0.098115942
GO:0030101	natural killer cell activation	0.008978446	0.098162476
ENSG00000131982	ENSG00000131982 subnetwork	0.008991288	0.098262548
ENSG00000108946	PRKAR1A subnetwork	0.00905159	0.098413462
ENSG00000179295	PTPN11 subnetwork	0.009010311	0.098457088
ENSG00000001167	NFYA subnetwork	0.009037836	0.098460058
ENSG00000106052	TAX1BP1 subnetwork	0.009065838	0.098463016
ENSG00000110448	CD5 subnetwork	0.00903084	0.098506744
MP:0005036	diarrhea	0.009092858	0.098992322
REACTOME_SIGNALING_BY_FGFR	REACTOME_SIGNALING_BY_FGFR	0.009132591	0.099568966
GO:0002832	negative regulation of response to biotic stimulus	0.009128612	0.099616491
ENSG00000125952	MAX subnetwork	0.009142522	0.099617225
REACTOME_SIGNALING_BY_PDGFR	REACTOME_SIGNALING_BY_PDGFR	0.009264381	0.10081262
REACTOME_IMMUNOREGULATORY_INTERACTIONS_BETWEEN_T_AND_REG_T_CELL	REACTOME_IMMUNOREGULATORY_INTERACTIONS_BETWEEN_T_AND_REG_T_CELL	0.009316896	0.101098376
ENSG00000063761	ADCK1 subnetwork	0.009391896	0.102051527
MP:0004810	decreased hematopoietic stem cell number	0.00944295	0.102235966
GO:0032945	negative regulation of mononuclear cell proliferation	0.009483448	0.10227704
GO:0019955	cytokine binding	0.009440297	0.102333333
GO:0050672	negative regulation of lymphocyte proliferation	0.009483448	0.102374169
ENSG00000169967	MAP3K2 subnetwork	0.009463151	0.102376426
ENSG00000164050	PLXNB1 subnetwork	0.009436647	0.102383222
ENSG00000198851	CD3E subnetwork	0.009517534	0.10250947
MP:0002074	abnormal hair texture	0.009516638	0.102606635
ENSG00000171148	TADA3 subnetwork	0.00957861	0.102882798
GO:0072160	nephron tubule epithelial cell differentiation	0.00955404	0.102885525
MP:0003699	abnormal female reproductive system physiology	0.009638317	0.103201507
ENSG00000154016	GRAP subnetwork	0.009618185	0.103207547
REACTOME_BMAL1CLOCKNPAS2_ACTIVATES_GENE_EXPRESSION	REACTOME_BMAL1CLOCKNPAS2_ACTIVATES_GENE_EXPRESSION	0.009606585	0.10325779
ENSG00000106992	AK1 subnetwork	0.009636672	0.103298775
ENSG00000204390	HSPA1L subnetwork	0.009656927	0.103339605
REACTOME_EFFECTS_OF_PIP2_HYDROLYSIS	REACTOME_EFFECTS_OF_PIP2_HYDROLYSIS	0.009683918	0.103618421
MP:0006043	decreased apoptosis	0.009714416	0.103849765
ENSG00000215778	ENSG00000215778 subnetwork	0.009730942	0.10393627
ENSG00000160791	CCR5 subnetwork	0.009730942	0.104033771
ENSG00000106144	CASP2 subnetwork	0.009814657	0.104634831
GO:0016064	immunoglobulin mediated immune response	0.009888307	0.10505145
GO:0008633	activation of pro-apoptotic gene products	0.00992291	0.105560748
ENSG00000119383	PPP2R4 subnetwork	0.009948837	0.105783582
GO:0045070	positive regulation of viral genome replication	0.009947972	0.105882353
GO:0050714	positive regulation of protein secretion	0.009993921	0.105959032
ENSG00000077150	NFKB2 subnetwork	0.009979876	0.105964585
GO:0044403	symbiosis, encompassing mutualism through parasitism	0.010065971	0.106651163
ENSG00000095794	CREM subnetwork	0.010079658	0.106737918
ENSG00000107338	SHB subnetwork	0.010127822	0.106963788

ENSG00000010810	FYN subnetwork	0.010261719	0.107770583
MP:0003045	fibrosis	0.010256521	0.107824074
MP:0009583	increased keratinocyte proliferation	0.010249538	0.107831325
ENSG00000099804	CDC34 subnetwork	0.010231487	0.107931354
ENSG00000158517	NCF1 subnetwork	0.010334346	0.108548983
MP:0002332	abnormal exercise endurance	0.010353813	0.108679594
GO:0030218	erythrocyte differentiation	0.010403811	0.108894009
ENSG00000060138	CSDA subnetwork	0.010400438	0.108948339
ENSG00000136942	RPL35 subnetwork	0.010477192	0.109668508
ENSG00000124151	NCOA3 subnetwork	0.0105561	0.110809568
ENSG00000137285	TUBB2B subnetwork	0.01058676	0.110983456
ENSG00000063177	RPL18 subnetwork	0.010596036	0.111019284
MP:0001585	hemolytic anemia	0.010634022	0.111330275
REACTOME_DEADENYLATION:DEI	REACTOME_DEADENYLATION:DEPENDENT_MRNA_DEC/	0.010730934	0.111563071
GO:0071887	leukocyte apoptotic process	0.010680163	0.111640697
MP:0008577	increased circulating interferon-gamma level	0.010711657	0.111665142
MP:0002018	malignant tumors	0.010707764	0.111721612
ENSG00000105887	MTPN subnetwork	0.010770887	0.11173516
GO:0043011	myeloid dendritic cell differentiation	0.010823732	0.112226277
KEGG_RENAL_CELL_CARCINOMA	KEGG_RENAL_CELL_CARCINOMA	0.010830562	0.11230629
REACTOME_NF:KB_ACTIVATION_	REACTOME_NF:KB_ACTIVATION_THROUGH_FADDRIP:1	0.010860184	0.112613843
ENSG00000104365	IKBKB subnetwork	0.010924199	0.112647325
ENSG00000105640	RPL18A subnetwork	0.010914441	0.112658802
GO:0071634	regulation of transforming growth factor beta production	0.010911018	0.112715713
GO:0019724	B cell mediated immunity	0.010896239	0.112784349
GO:0071604	transforming growth factor beta production	0.010911018	0.112818182
ENSG00000204273	ENSG00000204273 subnetwork	0.010971594	0.112986425
GO:0006968	cellular defense response	0.010988061	0.113019892
ENSG00000168399	ENSG00000168399 subnetwork	0.010971594	0.113088768
MP:0005339	increased susceptibility to atherosclerosis	0.011082345	0.11361587
GO:0032673	regulation of interleukin-4 production	0.011091611	0.113636364
ENSG00000073009	IKBKG subnetwork	0.01111104	0.113669065
ENSG00000131469	RPL27 subnetwork	0.011057534	0.113673285
GO:0008287	protein serine/threonine phosphatase complex	0.011090249	0.113738739
GO:0035257	nuclear hormone receptor binding	0.011052015	0.113775971
ENSG00000133124	IRS4 subnetwork	0.011182508	0.11381932
KEGG_TYROSINE_METABOLISM	KEGG_TYROSINE_METABOLISM	0.011146543	0.113868941
GO:0016278	lysine N-methyltransferase activity	0.011181408	0.113921218
ENSG00000111615	KRR1 subnetwork	0.011157351	0.113946188
ENSG00000170365	SMAD1 subnetwork	0.01124644	0.113960749
ENSG00000066117	SMARCD1 subnetwork	0.011142917	0.113971249
ENSG00000169220	RGS14 subnetwork	0.011234041	0.114017857
GO:0016279	protein-lysine N-methyltransferase activity	0.011181408	0.114023297
ENSG00000139515	PDX1 subnetwork	0.011265266	0.114024933
MP:0003091	abnormal cell migration	0.011217008	0.114030384
ENSG00000107566	ERLIN1 subnetwork	0.011260716	0.114081996
ENSG00000090863	GLG1 subnetwork	0.011298066	0.114323843
MP:0004842	abnormal large intestine crypts of Lieberkuhn morphology	0.011334909	0.114653641
GO:0030159	receptor signaling complex scaffold activity	0.01132912	0.114711111
ENSG00000100603	SNW1 subnetwork	0.011391747	0.114849291
GO:0005070	SH3/SH2 adaptor activity	0.011389067	0.114862467
MP:0009766	increased sensitivity to xenobiotic induced morbidity/mc	0.011408109	0.115057573
MP:0005325	abnormal renal glomerulus morphology	0.011428481	0.115132743
MP:0008115	abnormal dendritic cell differentiation	0.011481895	0.115649867

ENSG00000169750	RAC3 subnetwork	0.011637642	0.117137809
MP:0008502	increased IgG3 level	0.011675014	0.117210944
ENSG00000012124	CD22 subnetwork	0.011757299	0.117665198
ENSG00000005022	SLC25A5 subnetwork	0.011751583	0.117768959
ENSG00000095585	BLNK subnetwork	0.011784257	0.117825704
GO:0002763	positive regulation of myeloid leukocyte differentiation	0.011845285	0.11814587
ENSG00000100181	ENSG00000100181 subnetwork	0.011840341	0.118161829
MP:0002816	colitis	0.011894665	0.118464912
ENSG00000105376	ICAM5 subnetwork	0.011887383	0.118525022
MP:0002356	abnormal spleen red pulp morphology	0.011944601	0.118591426
ENSG00000089351	GRAMD1A subnetwork	0.011935702	0.118607706
MP:0008522	abnormal lymph node germinal center morphology	0.011926009	0.118624014
ENSG00000182578	CSF1R subnetwork	0.012055283	0.119667832
ENSG00000173163	COMMD1 subnetwork	0.012079032	0.119694323
GO:0003690	double-stranded DNA binding	0.012177982	0.120767888
ENSG00000106263	EIF3B subnetwork	0.012185432	0.120775261
ENSG00000152495	CAMK4 subnetwork	0.012184812	0.120880558
GO:0001776	leukocyte homeostasis	0.012237341	0.121018277
MP:0002928	abnormal bile duct morphology	0.012251548	0.121043478
ENSG000000213658	LAT subnetwork	0.012343012	0.121807124
MP:0010308	decreased tumor latency	0.01239992	0.122309028
MP:0000490	abnormal crypts of Lieberkuhn morphology	0.012521968	0.123330442
ENSG00000092098	RNF31 subnetwork	0.012548524	0.123570191
KEGG_ASTHMA	KEGG_ASTHMA	0.012556532	0.123593074
ENSG00000180353	HCLS1 subnetwork	0.012614269	0.124178201
MP:0006345	absent second branchial arch	0.012657342	0.124697755
MP:0005350	increased susceptibility to autoimmune disorder	0.012654391	0.124762316
MP:0004189	abnormal alveolar process morphology	0.012677503	0.124805867
ENSG00000167286	CD3D subnetwork	0.012710256	0.125086207
ENSG00000100294	MCAT subnetwork	0.012719633	0.125150732
MP:0006387	abnormal T cell number	0.012738162	0.125301205
ENSG00000141027	NCOR1 subnetwork	0.01280179	0.125515464
MP:0005094	abnormal T cell proliferation	0.012780182	0.125537403
GO:0002507	tolerance induction	0.012813832	0.125579399
ENSG00000127616	SMARCA4 subnetwork	0.012963289	0.126237201
GO:0050798	activated T cell proliferation	0.012872775	0.126286449
MP:0008190	decreased transitional stage B cell number	0.012954826	0.126302306
MP:0008721	abnormal chemokine level	0.012892034	0.126306769
ENSG00000105204	DYRK1B subnetwork	0.012990461	0.126342711
ENSG00000141646	SMAD4 subnetwork	0.012917336	0.126369863
GO:0002761	regulation of myeloid leukocyte differentiation	0.012948385	0.126410256
KEGG_VIRAL_MYOCARDITIS	KEGG_VIRAL_MYOCARDITIS	0.01293498	0.126432849
ENSG00000121966	CXCR4 subnetwork	0.013024066	0.126448041
GO:0050727	regulation of inflammatory response	0.01305834	0.126573129
ENSG00000113721	PDGFRB subnetwork	0.013067198	0.126593033
ENSG000000204104	TRAF3IP1 subnetwork	0.013036482	0.126595745
MP:0005031	abnormal trophoblast layer morphology	0.013155025	0.127589134
ENSG00000161203	AP2M1 subnetwork	0.013201406	0.128050847
GO:0001906	cell killing	0.013192314	0.12807464
ENSG00000163811	WDR43 subnetwork	0.013245162	0.128238781
MP:0003229	abnormal vitelline vasculature morphology	0.013310337	0.128637902
ENSG00000151247	EIF4E subnetwork	0.013365347	0.129078614
GO:0018105	peptidyl-serine phosphorylation	0.013444981	0.129898649
ENSG00000130165	ELOF1 subnetwork	0.013472787	0.130168776

MP:0006269	abnormal mammary gland growth during pregnancy	0.013516485	0.130454928
MP:0000352	decreased cell proliferation	0.013507276	0.130564924
ENSG00000015285	WAS subnetwork	0.013598145	0.131102694
GO:0001818	negative regulation of cytokine production	0.013640389	0.131202691
ENSG000000139323	POC1B subnetwork	0.013737613	0.131821998
MP:0005289	increased oxygen consumption	0.013732949	0.131932773
ENSG000000151849	CENPJ subnetwork	0.013746849	0.131963087
REACTOME_TRANSLOCATION_OF	REACTOME_TRANSLOCATION_OF_ZAP:70_TO_IMMUNC	0.013784764	0.132187762
ENSG000000206306	HLA-DRB1 subnetwork	0.013815407	0.132217573
ENSG000000126767	ELK1 subnetwork	0.013825279	0.132232441
ENSG000000188846	RPL14 subnetwork	0.013834237	0.132247285
ENSG000000206240	HLA-DRB1 subnetwork	0.013815407	0.132328308
MP:0008554	decreased circulating tumor necrosis factor level	0.013928133	0.133096828
MP:0001377	abnormal mating frequency	0.013970201	0.133402836
GO:0002274	myeloid leukocyte activation	0.013986192	0.133458333
GO:0018209	peptidyl-serine modification	0.014068338	0.134151414
ENSG000000205517	RGL3 subnetwork	0.014045027	0.13417985
GO:0048524	positive regulation of viral reproduction	0.014144568	0.134338843
ENSG000000136286	MYO1G subnetwork	0.014156751	0.134393064
KEGG_ADIPOCYTOKINE_SIGNALIN	KEGG_ADIPOCYTOKINE_SIGNALING_PATHWAY	0.014144049	0.134408602
GO:0042510	regulation of tyrosine phosphorylation of Stat1 protein	0.01408137	0.134413965
ENSG000000147853	AK3 subnetwork	0.01413683	0.134478477
MP:0001844	autoimmune response	0.014132864	0.134548467
KEGG_B_CELL_RECEPTOR_SIGNAI	KEGG_B_CELL_RECEPTOR_SIGNALING_PATHWAY	0.014125759	0.134618574
ENSG000000151065	DCP1B subnetwork	0.014121846	0.134688797
ENSG000000198626	RYS2 subnetwork	0.014115133	0.134759136
ENSG000000110092	CCND1 subnetwork	0.014227194	0.13490099
ENSG000000198053	SIRPA subnetwork	0.014260226	0.135284419
GO:0007249	I-kappaB kinase/NF-kappaB cascade	0.014320139	0.135538209
ENSG000000206450	HLA-B subnetwork	0.014309109	0.135608553
GO:0032613	interleukin-10 production	0.014306311	0.135720165
GO:0050900	leukocyte migration	0.014306084	0.13583196
GO:0002260	lymphocyte homeostasis	0.014372639	0.135878489
REACTOME_TRAF6_MEDIATED_N	REACTOME_TRAF6_MEDIATED_NF:KB_ACTIVATION	0.014429834	0.135995086
ENSG000000125503	PPP1R12C subnetwork	0.014400732	0.136013126
MP:0000291	enlarged pericardium	0.014421852	0.136106557
GO:0032615	interleukin-12 production	0.014486461	0.136415712
ENSG000000143768	LEFTY2 subnetwork	0.014564746	0.137080948
MP:0003492	abnormal involuntary movement	0.014591278	0.137091503
MP:0008681	increased interleukin-17 secretion	0.014710693	0.137510171
ENSG000000105647	PIK3R2 subnetwork	0.01472051	0.137560976
GO:0004715	non-membrane spanning protein tyrosine kinase activity	0.014663413	0.137591837
GO:0043122	regulation of I-kappaB kinase/NF-kappaB cascade	0.014706057	0.13762215
GO:0045061	thymic T cell selection	0.014697614	0.137693562
MP:0000496	abnormal small intestine morphology	0.014690318	0.137724307
KEGG_PANCREATIC_CANCER	KEGG_PANCREATIC_CANCER	0.014770553	0.137855402
ENSG000000162772	ATF3 subnetwork	0.01479101	0.137905844
ENSG000000172809	RPL38 subnetwork	0.01489184	0.138520614
GO:0060333	interferon-gamma-mediated signaling pathway	0.014846263	0.138523925
ENSG000000152518	ZFP36L2 subnetwork	0.014885441	0.13855178
ENSG000000114737	CISH subnetwork	0.014914624	0.138570275
REACTOME_GENERATION_OF_SE	REACTOME_GENERATION_OF_SECOND_MESSENGER_M	0.014861174	0.138573744
ENSG000000100239	PPP6R2 subnetwork	0.014869468	0.138582996
GO:0033158	regulation of protein import into nucleus, translocation	0.014936993	0.138700565

ENSG00000091127	PUS7 subnetwork	0.014978712	0.139112903
MP:0004953	decreased spleen weight	0.015035908	0.139452496
ENSG00000171552	BCL2L1 subnetwork	0.015028406	0.139524577
MP:0006380	abnormal spermatid morphology	0.015087492	0.139903459
MP:0001732	postnatal growth retardation	0.015160725	0.140353698
ENSG00000108861	DUSP3 subnetwork	0.015329793	0.140764331
ENSG00000107562	CXCL12 subnetwork	0.01532553	0.140796813
ENSG00000103671	TRIP4 subnetwork	0.015342987	0.140811456
GO:0050708	regulation of protein secretion	0.015323242	0.140869219
ENSG00000149273	RPS3 subnetwork	0.015320159	0.140981644
ENSG00000184863	RBM33 subnetwork	0.015231227	0.141004016
MP:0000217	abnormal leukocyte cell number	0.015240133	0.141011236
ENSG00000183520	UTP11L subnetwork	0.015305116	0.141014377
GO:0006916	anti-apoptosis	0.015266967	0.141032826
ENSG00000104856	RELB subnetwork	0.015293496	0.141047162
ENSG00000105429	MEGF8 subnetwork	0.015258649	0.141065705
ENSG00000171223	JUNB subnetwork	0.015285859	0.14108
GO:0003707	steroid hormone receptor activity	0.01538453	0.141096979
ENSG00000147439	BIN3 subnetwork	0.015250823	0.141098637
ENSG00000184967	NOC4L subnetwork	0.015464253	0.141620334
ENSG00000157557	ETS2 subnetwork	0.015488542	0.141666667
ENSG00000198793	MTOR subnetwork	0.015500027	0.141673275
ENSG00000211790	ENSG00000211790 subnetwork	0.015551248	0.14207607
ENSG00000102010	BMX subnetwork	0.015580685	0.142359462
ENSG00000125977	EIF2S2 subnetwork	0.015668007	0.142648221
MP:0008133	decreased Peyer's patch number	0.015660191	0.142721519
MP:0001919	abnormal reproductive system physiology	0.015716974	0.142969984
ENSG00000182718	ANXA2 subnetwork	0.01574091	0.143014996
ENSG00000118922	KLF12 subnetwork	0.015853379	0.143769716
GO:0051059	NF-kappaB binding	0.01587726	0.144050433
ENSG00000158042	MRPL17 subnetwork	0.015900012	0.144094488
ENSG00000005175	RPAP3 subnetwork	0.016023744	0.145125786
GO:0010761	fibroblast migration	0.016018993	0.14516129
GO:0032386	regulation of intracellular transport	0.016050091	0.14520817
ENSG00000103342	GSPT1 subnetwork	0.016174102	0.146075353
GO:0033138	positive regulation of peptidyl-serine phosphorylation	0.016212165	0.146235294
GO:0045672	positive regulation of osteoclast differentiation	0.016245008	0.14624119
ENSG00000125912	NCLN subnetwork	0.016240537	0.146355799
ENSG00000100815	TRIP11 subnetwork	0.016292039	0.146713615
MP:0000604	amyloidosis	0.016432282	0.147849883
MP:0008714	lung carcinoma	0.016443657	0.147851563
GO:0022627	cytosolic small ribosomal subunit	0.016529271	0.148207327
ENSG00000111424	VDR subnetwork	0.016515263	0.148283931
GO:0071260	cellular response to mechanical stimulus	0.016506726	0.148399688
MP:0001273	decreased metastatic potential	0.016581343	0.148753894
ENSG00000163512	AZI2 subnetwork	0.016607642	0.149027237
GO:0043123	positive regulation of I-kappaB kinase/NF-kappaB cascade	0.016734371	0.15
ENSG00000006075	CCL3 subnetwork	0.016773529	0.15042735
MP:0008108	abnormal small intestinal villus morphology	0.016845344	0.150737005
GO:0046639	negative regulation of alpha-beta T cell differentiation	0.016837859	0.150815217
ENSG00000105401	CDC37 subnetwork	0.016976971	0.151627907
ENSG00000178950	GAK subnetwork	0.017046231	0.152246321
GO:0046822	regulation of nucleocytoplasmic transport	0.017124042	0.152472952
GO:0046677	response to antibiotic	0.017097855	0.152513534

ENSG00000099308	MAST3 subnetwork	0.017089941	0.152592879
ENSG00000132471	WBP2 subnetwork	0.017170384	0.152700617
ENSG00000198755	RPL10A subnetwork	0.017214646	0.152775636
ENSG00000157077	ZFYVE9 subnetwork	0.017169761	0.152779923
ENSG00000081189	MEF2C subnetwork	0.017267267	0.152966102
ENSG00000145907	G3BP1 subnetwork	0.017280006	0.153040801
GO:0046006	regulation of activated T cell proliferation	0.017323648	0.153384615
ENSG00000004478	FKBP4 subnetwork	0.017426239	0.154688701
GO:0070228	regulation of lymphocyte apoptotic process	0.017473165	0.155069124
ENSG00000136518	ACTL6A subnetwork	0.017493563	0.15514198
ENSG00000198265	HELZ subnetwork	0.017722837	0.156940184
MP:0000599	enlarged liver	0.017761079	0.157318008
GO:0031343	positive regulation of cell killing	0.017778926	0.157388974
MP:0009133	decreased white fat cell size	0.017836203	0.157727621
MP:0005666	abnormal adipose tissue physiology	0.017867309	0.157912844
ENSG00000054796	SPO11 subnetwork	0.017895819	0.158097785
ENSG00000211735	ENSG00000211735 subnetwork	0.017965743	0.158174905
MP:0003627	abnormal leukocyte tethering or rolling	0.017981556	0.158282675
ENSG00000211810	ENSG00000211810 subnetwork	0.017965743	0.158295282
MP:0002335	decreased airway responsiveness	0.017913694	0.158320611
ENSG00000211799	ENSG00000211799 subnetwork	0.017965743	0.158415842
ENSG00000211739	ENSG00000211739 subnetwork	0.017965743	0.158536585
MP:0006271	abnormal involution of the mammary gland	0.017963339	0.158619375
GO:0008629	induction of apoptosis by intracellular signals	0.018024914	0.158731967
ENSG00000211762	ENSG00000211762 subnetwork	0.018096528	0.159294385
ENSG00000198324	FAM109A subnetwork	0.018170127	0.159855951
GO:0032655	regulation of interleukin-12 production	0.018199176	0.159924242
MP:0003793	abnormal submandibular gland morphology	0.018228267	0.160060514
ENSG00000163486	SRGAP2 subnetwork	0.018226145	0.160181681
ENSG00000139722	VPS37B subnetwork	0.0182925	0.160582011
REACTOME_CHEMOKINE_RECEPT	REACTOME_CHEMOKINE_RECEPTORS_BIND_CHEMOKIN	0.018314249	0.160649547
ENSG00000162692	VCAM1 subnetwork	0.018391621	0.161283019
GO:0035591	signaling adaptor activity	0.018409386	0.161387632
MP:0001614	abnormal blood vessel morphology	0.018522217	0.161402851
ENSG00000133026	MYH10 subnetwork	0.018463877	0.161454408
MP:0002358	abnormal spleen periaarteriolar lymphoid sheath morpho	0.018521224	0.161524024
ENSG00000175104	TRAF6 subnetwork	0.018538128	0.161544228
ENSG00000151498	ACAD8 subnetwork	0.01847542	0.161558735
ENSG00000135605	TEC subnetwork	0.018516749	0.161645379
ENSG00000197373	ENSG00000197373 subnetwork	0.01851591	0.161729323
ENSG00000168255	POLR2J3 subnetwork	0.01851591	0.161851016
MP:0006341	small first branchial arch	0.018602955	0.161872659
ENSG00000050748	MAPK9 subnetwork	0.018626255	0.161901198
ENSG00000100365	NCF4 subnetwork	0.018708129	0.162752431
ENSG00000198618	ENSG00000198618 subnetwork	0.018796338	0.163077496
MP:0004947	skin inflammation	0.018779155	0.163097015
GO:0003714	transcription corepressor activity	0.01876614	0.163106796
GO:0030674	protein binding, bridging	0.018878115	0.163187221
ENSG00000148303	RPL7A subnetwork	0.018755644	0.16319133
ENSG00000196262	PPIA subnetwork	0.018796338	0.163199105
ENSG00000157456	CCNB2 subnetwork	0.018910063	0.163214551
MP:0002088	abnormal embryonic growth/weight/body size	0.018865842	0.163271375
MP:0009338	increased splenocyte number	0.018838623	0.163291139
MP:0001851	eye inflammation	0.018943744	0.163316024

ENSG00000100266	PACSIN2 subnetwork	0.018854141	0.163355655
MP:0003724	increased susceptibility to induced arthritis	0.018998538	0.163676798
GO:0010740	positive regulation of intracellular protein kinase cascade	0.019035627	0.163962963
MP:0005362	abnormal Langerhans cell physiology	0.019070406	0.164016272
ENSG00000180182	MED14 subnetwork	0.019055759	0.164063657
GO:0031331	positive regulation of cellular catabolic process	0.019139725	0.164412417
ENSG00000156127	BATF subnetwork	0.019181369	0.164623338
ENSG00000135341	MAP3K7 subnetwork	0.019227884	0.164749263
GO:0004879	ligand-activated sequence-specific DNA binding RNA pol	0.019208086	0.164833948
ENSG00000100784	RPS6KA5 subnetwork	0.019275423	0.165070007
ENSG00000055732	MCOLN3 subnetwork	0.019357295	0.165135929
MP:0000295	trabecula carnea hypoplasia	0.01934771	0.165194996
ENSG00000108679	LGALS3BP subnetwork	0.019311812	0.165206186
ENSG00000124614	RPS10 subnetwork	0.019356005	0.165257353
ENSG00000119414	PPP6C subnetwork	0.019417759	0.165418502
ENSG00000121440	PDZRN3 subnetwork	0.019588656	0.166544387
ENSG00000123416	TUBA1B subnetwork	0.019627177	0.166788856
ENSG00000123643	SLC36A1 subnetwork	0.019651314	0.166813187
GO:0042176	regulation of protein catabolic process	0.01977288	0.167862372
ENSG00000161405	IKZF3 subnetwork	0.01978599	0.167922458
ENSG00000070759	TESK2 subnetwork	0.019868221	0.168494152
GO:0046641	positive regulation of alpha-beta T cell proliferation	0.01989497	0.168722628
ENSG00000182093	WRB subnetwork	0.019894122	0.168845873
MP:0000280	thin ventricular wall	0.02003116	0.169418182
ENSG00000143398	PIP5K1A subnetwork	0.019976477	0.169438366
GO:0032800	receptor biosynthetic process	0.020052536	0.169440407
GO:0048305	immunoglobulin secretion	0.020030904	0.169541485
ENSG00000148737	TCF7L2 subnetwork	0.020004359	0.169569971
MP:0001926	female infertility	0.020026044	0.169664967
ENSG00000134987	WDR36 subnetwork	0.020173597	0.170174165
GO:0050690	regulation of defense response to virus by virus	0.020169123	0.170261438
ENSG00000139514	SLC7A1 subnetwork	0.02021882	0.170377085
ENSG00000068615	REEP1 subnetwork	0.020317898	0.170628613
ENSG00000120910	PPP3CC subnetwork	0.02031469	0.170751988
ENSG00000123091	RNF11 subnetwork	0.020313924	0.170875543
MP:0001825	arrested T cell differentiation	0.020276011	0.170942029
ENSG00000183034	OTOP2 subnetwork	0.020310855	0.17096307
ENSG00000112249	ASCC3 subnetwork	0.020445705	0.171407942
MP:0008803	abnormal placental labyrinth vasculature morphology	0.020479641	0.171449171
ENSG00000172116	CD8B subnetwork	0.020460699	0.171464646
GO:0010627	regulation of intracellular protein kinase cascade	0.020502331	0.171469741
ENSG00000177463	NR2C2 subnetwork	0.020514955	0.171490281
ENSG00000181163	NPM1 subnetwork	0.020581397	0.171942446
GO:0001910	regulation of leukocyte mediated cytotoxicity	0.020749841	0.173616104
ENSG00000204221	WDR46 subnetwork	0.02079276	0.173833453
ENSG00000089022	MAPKAPK5 subnetwork	0.020834635	0.17390681
ENSG00000206284	WDR46 subnetwork	0.02079276	0.173958333
ENSG00000108055	SMC3 subnetwork	0.02083297	0.173995696
ENSG00000164587	RPS14 subnetwork	0.02089599	0.174266285
MP:0008973	decreased erythroid progenitor cell number	0.020879272	0.174391117
MP:0004905	decreased uterus weight	0.021005213	0.17498213
MP:0004955	increased thymus weight	0.02099781	0.175071531
ENSG00000166402	TUB subnetwork	0.02105352	0.175285714
GO:0008170	N-methyltransferase activity	0.021119188	0.17551675

GO:0004177	aminopeptidase activity	0.021108702	0.175606277
ENSG00000172115	CYCS subnetwork	0.021102525	0.175624554
MP:0005033	abnormal trophoblast giant cells	0.0212214	0.176068376
MP:0005331	insulin resistance	0.021377457	0.176865672
GO:0032653	regulation of interleukin-10 production	0.021361182	0.17688478
MP:0000596	abnormal liver development	0.021354167	0.176903915
GO:0050707	regulation of cytokine secretion	0.021443246	0.177166193
ENSG00000119616	FCF1 subnetwork	0.021463647	0.177217885
GO:0000288	nuclear-transcribed mRNA catabolic process, deadenylat	0.021510327	0.17751773
ENSG00000033800	PIAS1 subnetwork	0.02153731	0.177604536
MP:0001212	skin lesions	0.021589171	0.178045326
GO:0043383	negative T cell selection	0.02166969	0.178591649
ENSG00000142453	CARM1 subnetwork	0.021802377	0.179110797
ENSG00000211889	ENSG00000211889 subnetwork	0.021832538	0.17914024
MP:0003795	abnormal bone structure	0.021822484	0.179196051
GO:0043372	positive regulation of CD4-positive, alpha-beta T cell diff	0.021801388	0.179237288
ENSG00000153233	PTPRR subnetwork	0.021773771	0.179349364
GO:2000516	positive regulation of CD4-positive, alpha-beta T cell acti	0.021801388	0.179363958
ENSG00000137713	PPP2R1B subnetwork	0.02193512	0.180246479
ENSG00000156675	RAB11FIP1 subnetwork	0.022002491	0.180788177
ENSG00000122691	TWIST1 subnetwork	0.022092154	0.181131413
ENSG00000106546	AHR subnetwork	0.02213809	0.181144663
MP:0000704	abnormal thymus development	0.022090975	0.181223629
GO:0061008	hepaticobiliary system development	0.022216935	0.181438596
ENSG00000105216	ENSG00000105216 subnetwork	0.02230724	0.181757703
MP:0004808	abnormal hematopoietic stem cell morphology	0.022285551	0.181779958
ENSG00000065183	WDR3 subnetwork	0.022267847	0.181802244
ENSG00000144668	ITGA9 subnetwork	0.022351375	0.182155353
MP:0008702	increased interleukin-5 secretion	0.022416148	0.182424878
MP:0002411	decreased susceptibility to bacterial infection	0.022402557	0.182482517
ENSG00000026508	CD44 subnetwork	0.022483725	0.182751397
MP:0004876	decreased mean systemic arterial blood pressure	0.022625417	0.183879972
MP:0010875	increased bone volume	0.022702359	0.184553696
GO:0001909	leukocyte mediated cytotoxicity	0.02272624	0.18456446
ENSG00000057657	PRDM1 subnetwork	0.022804879	0.184700974
ENSG00000198933	TBKBP1 subnetwork	0.022827142	0.184746352
ENSG00000100644	HIF1A subnetwork	0.022779957	0.184759916
ENSG00000213625	LEPROT subnetwork	0.022769088	0.184818942
ENSG00000179583	CIITA subnetwork	0.022886781	0.184906315
ENSG00000133740	E2F5 subnetwork	0.022874733	0.184930556
MP:0008827	abnormal thymus cell ratio	0.022911276	0.184951456
ENSG00000123685	BATF3 subnetwork	0.023048132	0.185511757
ENSG00000126749	ENSG00000126749 subnetwork	0.023060895	0.185521769
MP:0001222	epidermal hyperplasia	0.022998309	0.185585586
ENSG00000075391	RASAL2 subnetwork	0.023036745	0.185640138
ENSG00000121022	COPS5 subnetwork	0.023012086	0.18566482
ENSG00000127666	TICAM1 subnetwork	0.023132572	0.185946133
ENSG00000188404	SELL subnetwork	0.023192774	0.186103448
MP:0003710	abnormal physiological neovascularization	0.0231893	0.186197378
MP:0009395	increased nucleated erythrocyte cell number	0.023317044	0.186519945
ENSG00000132964	CDK8 subnetwork	0.023306553	0.186545079
GO:2000106	regulation of leukocyte apoptotic process	0.02333765	0.186563574
ENSG00000177169	ULK1 subnetwork	0.023296412	0.186604683
ENSG00000142676	RPL11 subnetwork	0.023289098	0.186664369

MP:0010144	abnormal tumor vascularization	0.023431131	0.186831276
MP:0000609	abnormal liver physiology	0.023415574	0.186890872
ENSG00000139318	DUSP6 subnetwork	0.02340568	0.18698489
ENSG00000173110	HSPA6 subnetwork	0.02357548	0.187021858
REACTOME_ACTIVATION_OF_BH3	REACTOME_ACTIVATION_OF_BH3:ONLY_PROTEINS	0.023574047	0.187149692
ENSG00000101966	XIAP subnetwork	0.023497689	0.187217272
ENSG00000204120	GIGYF2 subnetwork	0.023562977	0.187243502
ENSG00000160654	CD3G subnetwork	0.023512077	0.187260274
MP:0009858	abnormal cellular extravasation	0.023543955	0.187268994
ENSG00000160220	ENSG00000160220 subnetwork	0.023670942	0.187849829
GO:0004003	ATP-dependent DNA helicase activity	0.023753115	0.188335607
ENSG00000108256	NUFIP2 subnetwork	0.023799247	0.188479891
GO:0045785	positive regulation of cell adhesion	0.023975119	0.189713896
KEGG_PATHWAYS_IN_CANCER	KEGG_PATHWAYS_IN_CANCER	0.024090985	0.189850645
ENSG00000147689	FAM83A subnetwork	0.024073992	0.189877717
ENSG00000175390	EIF3F subnetwork	0.024107068	0.189891452
ENSG00000148843	PDCD11 subnetwork	0.024068871	0.189972808
ENSG00000165704	HPRT1 subnetwork	0.024039347	0.190027229
ENSG00000139687	RB1 subnetwork	0.024054064	0.190034014
ENSG00000137574	TGS1 subnetwork	0.024168714	0.190176152
ENSG00000126261	UBA2 subnetwork	0.024164599	0.190305085
ENSG00000119812	FAM98A subnetwork	0.024192415	0.190385917
ENSG00000130522	JUND subnetwork	0.024226636	0.19056157
REACTOME_TERMINATION_OF_O	REACTOME_TERMINATION_OF_O:GLYCAN_BIOSYNTHES	0.024348225	0.190633423
REACTOME_SEMA4D_INDUCED_C	REACTOME_SEMA4D_INDUCED_CELL_MIGRATION_AND	0.024342399	0.190728254
ENSG00000124181	PLCG1 subnetwork	0.0242481	0.190736984
ENSG00000120156	TEK subnetwork	0.024336796	0.190823212
ENSG00000122026	RPL21 subnetwork	0.024408246	0.190942761
MP:0002500	granulomatous inflammation	0.024329035	0.190952059
GO:0050699	WW domain binding	0.024563111	0.190997323
ENSG00000120709	FAM53C subnetwork	0.024489353	0.191006711
ENSG00000110492	MDK subnetwork	0.02453476	0.191024782
ENSG00000177879	AP3S1 subnetwork	0.024478168	0.191034251
MP:0011402	renal cast	0.024320924	0.191081081
GO:0050710	negative regulation of cytokine secretion	0.024471188	0.19109543
GO:0030889	negative regulation of B cell proliferation	0.024531404	0.191119303
ENSG00000171863	RPS7 subnetwork	0.024513082	0.19121395
ENSG00000110987	BCL7A subnetwork	0.024468222	0.191223941
GO:0035850	epithelial cell differentiation involved in kidney developm	0.02445575	0.191251682
GO:0045136	development of secondary sexual characteristics	0.024660898	0.191644385
ENSG00000141522	ARHGDI1 subnetwork	0.024632556	0.191672241
MP:0008189	increased transitional stage B cell number	0.024700785	0.191883768
ENSG00000055208	TAB2 subnetwork	0.024748531	0.192189586
REACTOME_NUCLEAR_RECEPTOR	REACTOME_NUCLEAR_RECEPTOR_TRANSCRIPTION_PAT	0.024844126	0.192861908
GO:0042104	positive regulation of activated T cell proliferation	0.024871086	0.192866667
ENSG00000065675	PRKCQ subnetwork	0.02492125	0.193009321
ENSG00000129250	KIF1C subnetwork	0.02491394	0.193071286
MP:0008254	increased megakaryocyte cell number	0.024969036	0.19334664
MP:0005425	increased macrophage cell number	0.025016229	0.193716755
ENSG00000130479	MAP1S subnetwork	0.025101152	0.194156707
ENSG00000070756	PABPC1 subnetwork	0.025099565	0.194252492
ENSG00000168488	ATXN2L subnetwork	0.02518203	0.194757797
GO:0033157	regulation of intracellular protein transport	0.025225314	0.194893899
GO:0010212	response to ionizing radiation	0.025251814	0.19509609

GO:0030522	intracellular receptor mediated signaling pathway	0.025283297	0.195331126
ENSG00000130312	MRPL34 subnetwork	0.025313137	0.195433488
MP:0000737	abnormal myotome development	0.025370601	0.196097884
MP:0005461	abnormal dendritic cell morphology	0.025433345	0.196532365
ENSG00000211455	STK38L subnetwork	0.025432858	0.196662226
ENSG00000164342	TLR3 subnetwork	0.025542833	0.19690178
ENSG00000143119	CD53 subnetwork	0.025536894	0.196998681
ENSG00000169375	SIN3A subnetwork	0.025523935	0.19709571
ENSG00000112576	CCND3 subnetwork	0.025639597	0.197891963
GO:0045346	regulation of MHC class II biosynthetic process	0.025698396	0.198123766
ENSG00000206308	HLA-DRA subnetwork	0.025790777	0.198783695
REACTOME_SEMA4D_IN_SEMAPHORIN_SIGNALING	REACTOME_SEMA4D_IN_SEMAPHORIN_SIGNALING	0.025782281	0.198881579
ENSG00000196083	IL1RAP subnetwork	0.02583406	0.198981603
ENSG00000118046	STK11 subnetwork	0.025868525	0.199212081
ENSG00000198034	RPS4X subnetwork	0.025930209	0.199606299
ENSG00000164889	SLC4A2 subnetwork	0.026070727	0.200819672
ENSG00000132153	DHX30 subnetwork	0.026120032	0.200883508
MP:0006410	abnormal common myeloid progenitor cell morphology	0.026118806	0.200982318
ENSG00000141543	EIF4A3 subnetwork	0.026111871	0.201048493
ENSG00000078142	PIK3C3 subnetwork	0.026206144	0.201308044
ENSG00000138293	NCOA4 subnetwork	0.026288758	0.201764706
ENSG00000058668	ATP2B4 subnetwork	0.026360181	0.202088773
GO:0046209	nitric oxide metabolic process	0.02634496	0.202090137
ENSG00000149923	PPP4C subnetwork	0.026413545	0.202149837
ENSG00000115904	SOS1 subnetwork	0.026400895	0.202151239
MP:0008092	abnormal T-helper 2 cell differentiation	0.026386749	0.202185258
MP:0000602	enlarged liver sinusoidal spaces	0.026533781	0.20263329
ENSG00000198734	F5 subnetwork	0.026491602	0.202734375
REACTOME_HEMOSTASIS	REACTOME_HEMOSTASIS	0.026531799	0.202765127
GO:0033077	T cell differentiation in thymus	0.026593793	0.202956465
ENSG00000128829	EIF2AK4 subnetwork	0.026601649	0.202987013
REACTOME_NOD12_SIGNALING_PATHWAY	REACTOME_NOD12_SIGNALING_PATHWAY	0.026722461	0.203926022
ENSG0000012223	LTF subnetwork	0.026855742	0.20460441
ENSG00000105173	CCNE1 subnetwork	0.026985756	0.204680439
GO:2000116	regulation of cysteine-type endopeptidase activity	0.02697464	0.204780362
ENSG00000065361	ERBB3 subnetwork	0.026950723	0.204883571
MP:0008539	decreased susceptibility to induced colitis	0.026945952	0.204886731
MP:0003132	increased pre-B cell number	0.026961976	0.204912734
MP:0001824	abnormal thymus involution	0.026939239	0.20501943
ENSG00000169429	IL8 subnetwork	0.026937797	0.205119896
MP:0006270	abnormal mammary gland growth during lactation	0.027229639	0.206354839
MP:0000511	abnormal intestinal mucosa morphology	0.027345609	0.206954282
MP:0002993	arthritis	0.027305907	0.20696325
GO:0045884	regulation of survival gene product expression	0.027336924	0.206990979
GO:0001889	liver development	0.027394617	0.207271557
ENSG00000107485	GATA3 subnetwork	0.027504257	0.208135048
ENSG00000102001	CACNA1F subnetwork	0.027600351	0.208611825
GO:0000289	nuclear-transcribed mRNA poly(A) tail shortening	0.027700071	0.209242619
GO:0002718	regulation of cytokine production involved in immune re	0.027699179	0.209344894
ENSG00000147507	ENSG00000147507 subnetwork	0.027730729	0.209364978
ENSG00000169439	SDC2 subnetwork	0.027801401	0.209615385
GO:0009986	cell surface	0.027835013	0.209801409
GO:0042130	negative regulation of T cell proliferation	0.027867894	0.209980806
ENSG00000206505	HLA-A subnetwork	0.027847441	0.209987196

ENSG00000136448	NMT1 subnetwork	0.028096063	0.211413043
REACTOME_NEPHRIN_INTERACTIONS	REACTOME_NEPHRIN_INTERACTIONS	0.028121789	0.212108626
GO:0070064	proline-rich region binding	0.028179732	0.212220804
MP:0008210	increased mature B cell number	0.028163725	0.212292465
ENSG00000148400	NOTCH1 subnetwork	0.028501777	0.214490446
ENSG00000160633	SAFB subnetwork	0.028532697	0.214535623
ENSG00000166167	BTRC subnetwork	0.028499282	0.214595284
ENSG00000105141	CASP14 subnetwork	0.028531506	0.214640356
ENSG00000004059	ARF5 subnetwork	0.028496657	0.214732143
ENSG00000108604	SMARCD2 subnetwork	0.0286187	0.215416402
ENSG00000206267	ENSG00000206267 subnetwork	0.028857809	0.21634981
GO:0042054	histone methyltransferase activity	0.028796871	0.216412698
ENSG00000153563	CD8A subnetwork	0.028833364	0.216465736
GO:0017053	transcriptional repressor complex	0.02878992	0.216486658
ENSG00000204351	SKIV2L subnetwork	0.028857809	0.216487001
MP:0005419	hypoalbuminemia	0.028966058	0.21685642
ENSG00000152894	PTPRK subnetwork	0.028960085	0.216898734
MP:0002727	decreased circulating insulin level	0.028959084	0.217036099
ENSG00000137154	RPS6 subnetwork	0.029035922	0.217045455
ENSG00000173473	SMARCC1 subnetwork	0.029032183	0.217087808
GO:0032270	positive regulation of cellular protein metabolic process	0.029029077	0.217225032
ENSG00000185551	NR2F2 subnetwork	0.029140776	0.217665615
MP:0009321	increased histiocytic sarcoma incidence	0.029162837	0.21778058
GO:0043028	cysteine-type endopeptidase regulator activity involved in	0.029269366	0.218261965
ENSG00000083520	DIS3 subnetwork	0.029258577	0.218273472
ENSG00000147010	SH3KBP1 subnetwork	0.029408363	0.218561558
ENSG00000092470	WDR76 subnetwork	0.029342936	0.218565135
ENSG00000179335	CLK3 subnetwork	0.02943587	0.218601004
ENSG00000143514	TP53BP2 subnetwork	0.029390375	0.218604651
ENSG00000061273	HDAC7 subnetwork	0.02936128	0.218616352
MP:0002161	abnormal fertility/fecundity	0.02948831	0.218640351
ENSG00000147604	RPL7 subnetwork	0.029426552	0.218644068
ENSG00000164951	PDP1 subnetwork	0.029519265	0.218659987
ENSG00000006062	MAP3K14 subnetwork	0.029474482	0.218714734
ENSG00000178562	CD28 subnetwork	0.029568031	0.218804756
GO:0033135	regulation of peptidyl-serine phosphorylation	0.029798473	0.220419012
ENSG00000065717	TLE2 subnetwork	0.029843676	0.22053125
ENSG00000165699	TSC1 subnetwork	0.029867829	0.220549656
GO:0072676	lymphocyte migration	0.029908491	0.220755306
ENSG00000100354	TNRC6B subnetwork	0.029956573	0.220760599
ENSG00000150907	FOXO1 subnetwork	0.029946809	0.220867124
ENSG00000186575	NF2 subnetwork	0.030114926	0.221344119
MP:0008734	decreased susceptibility to endotoxin shock	0.030108029	0.221419676
ENSG00000080503	SMARCA2 subnetwork	0.030102364	0.22152648
ENSG00000055130	CUL1 subnetwork	0.030273273	0.222008679
ENSG00000008735	MAPK8IP2 subnetwork	0.030269813	0.222115385
MP:0001622	abnormal vasculogenesis	0.030268909	0.222253259
ENSG00000196735	HLA-DQA1 subnetwork	0.03022682	0.222263682
MP:0002874	decreased hemoglobin content	0.030302456	0.222273854
GO:0042101	T cell receptor complex	0.030240063	0.222311995
REACTOME_TRANSCRIPTIONAL_REGULATION_OF_WHITE_BLOOD_CELL_COUNT	REACTOME_TRANSCRIPTIONAL_REGULATION_OF_WHITE_BLOOD_CELL_COUNT	0.030345785	0.222352941
MP:0003352	increased circulating renin level	0.030268772	0.222391304
ENSG00000116604	MEF2D subnetwork	0.03041584	0.222603587
ENSG00000121753	BAI2 subnetwork	0.030404787	0.222679455

MP:0006050	pulmonary fibrosis	0.030484613	0.22302225
GO:0071346	cellular response to interferon-gamma	0.030625539	0.223703704
MP:0005399	increased susceptibility to fungal infection	0.030580816	0.223749228
MP:0008782	increased B cell apoptosis	0.030725888	0.2245219
GO:0030332	cyclin binding	0.030806564	0.224984596
MP:0008186	increased pro-B cell number	0.030840337	0.224984615
ENSG00000196236	XPNPEP3 subnetwork	0.030825734	0.225
GO:0043281	regulation of cysteine-type endopeptidase activity involving	0.030794496	0.225
GO:0043368	positive T cell selection	0.030871719	0.225092251
MP:0004841	abnormal small intestine crypts of Lieberkuhn morphology	0.030914813	0.225337838
GO:0045670	regulation of osteoclast differentiation	0.030910568	0.225414874
GO:0060090	binding, bridging	0.030975992	0.225721301
ENSG00000115946	PNO1 subnetwork	0.031128397	0.226348039
GO:0002708	positive regulation of lymphocyte mediated immunity	0.031110742	0.226364194
GO:0002705	positive regulation of leukocyte mediated immunity	0.031110742	0.226503067
ENSG00000179344	HLA-DQB1 subnetwork	0.031248973	0.226819572
ENSG00000186468	RPS23 subnetwork	0.031269745	0.226833741
ENSG00000126001	CEP250 subnetwork	0.031237742	0.226927785
KEGG_ACUTE_MYELOID_LEUKEM	KEGG_ACUTE_MYELOID_LEUKEMIA	0.031225984	0.226944274
MP:0000266	abnormal heart morphology	0.031412237	0.227286585
ENSG00000089157	RPLP0 subnetwork	0.031374671	0.227289377
ENSG00000149554	CHEK1 subnetwork	0.03138977	0.227303234
ENSG00000182568	SATB1 subnetwork	0.031441285	0.227330896
ENSG00000121067	SPOP subnetwork	0.031369784	0.227397679
ENSG00000006712	PAF1 subnetwork	0.031478044	0.227496955
MP:0002416	abnormal proerythroblast morphology	0.031577484	0.227889294
ENSG00000118689	FOXO3 subnetwork	0.031571317	0.227967133
MP:0011501	increased glomerular capsule space	0.031669476	0.227973301
ENSG00000130713	EXOSC2 subnetwork	0.031686836	0.22801698
ENSG00000151090	THRB subnetwork	0.031646539	0.228020644
ENSG00000108094	CUL2 subnetwork	0.031634045	0.228145897
ENSG00000198604	BAZ1A subnetwork	0.031645102	0.228159174
MP:0003383	abnormal gluconeogenesis	0.031798255	0.228757576
MP:0002190	disorganized myocardium	0.03181139	0.228800727
ENSG00000043462	LCP2 subnetwork	0.031998391	0.230217786
MP:0001712	abnormal placenta development	0.031995375	0.230326877
ENSG00000116918	TSNAX subnetwork	0.032067486	0.230574018
ENSG00000124762	CDKN1A subnetwork	0.032109445	0.230597465
MP:0003884	decreased macrophage cell number	0.032086769	0.230615942
ENSG00000103152	MPG subnetwork	0.032057011	0.230622733
ENSG00000135090	TAOK3 subnetwork	0.032137297	0.230729795
ENSG00000124198	ARFGEF2 subnetwork	0.032275288	0.231445783
ENSG00000063046	EIF4B subnetwork	0.032253675	0.231464738
ENSG00000163517	HDAC11 subnetwork	0.032308185	0.231517158
ENSG00000128272	ATF4 subnetwork	0.032340327	0.231558363
MP:0001874	acanthosis	0.032414753	0.23190018
REACTOME_NUCLEOTIDE:BINDING	REACTOME_NUCLEOTIDE:BINDING_DOMAIN_LEUCINE_BINDING	0.032494247	0.232241587
GO:0045178	basal part of cell	0.032640796	0.233333333
REACTOME_TRANSLATION_INITIATION	REACTOME_TRANSLATION_INITIATION_COMPLEX_FORMATION	0.032691171	0.233673469
MP:0011098	complete embryonic lethality during organogenesis	0.0327344	0.234013197
ENSG00000172175	MALT1 subnetwork	0.032904946	0.234931096
MP:0004856	decreased ovary weight	0.032884542	0.234982014
GO:0043566	structure-specific DNA binding	0.032934119	0.23502994
GO:0030684	preribosome	0.032957879	0.23518851

GO:0035967	cellular response to topologically incorrect protein	0.033094196	0.236124402
ENSG00000196981	WDR5B subnetwork	0.033196318	0.236293206
ENSG00000065833	ME1 subnetwork	0.033134383	0.236341901
ENSG00000117266	CDK18 subnetwork	0.033193337	0.236374478
GO:2000108	positive regulation of leukocyte apoptotic process	0.033182471	0.236426014
ENSG00000136383	ALPK3 subnetwork	0.033180841	0.236477612
GO:0006111	regulation of gluconeogenesis	0.033172847	0.23655914
REACTOME_OPIOID_SIGNALLING	REACTOME_OPIOID_SIGNALLING	0.033277671	0.23707564
REACTOME_RIBOSOMAL_SCANNING	REACTOME_RIBOSOMAL_SCANNING_AND_START_CODING	0.033331643	0.23718025
MP:0000607	abnormal hepatocyte morphology	0.03332458	0.237202381
ENSG00000100353	EIF3D subnetwork	0.033373486	0.237336504
REACTOME_TOLL_LIKE_RECEPTOR_3_TLR3_CASCADE	REACTOME_TOLL_LIKE_RECEPTOR_3_TLR3_CASCADE	0.033517474	0.237551867
REACTOME_GROWTH_HORMONE_RECEPTOR_SIGNALING	REACTOME_GROWTH_HORMONE_RECEPTOR_SIGNALING	0.033449175	0.237648456
REACTOME_TRIF_MEDIATED_TLR3_SIGNALING	REACTOME_TRIF_MEDIATED_TLR3_SIGNALING	0.033517474	0.237692764
ENSG00000013297	CLDN11 subnetwork	0.033556026	0.237766588
GO:0001666	response to hypoxia	0.033513738	0.237774481
GO:0051092	positive regulation of NF-kappaB transcription factor activity	0.033441725	0.237789661
ENSG00000058404	CAMK2B subnetwork	0.033868889	0.239197166
ENSG00000166046	TCP11L2 subnetwork	0.033806179	0.239266706
ENSG00000120659	TNFSF11 subnetwork	0.033851606	0.239279386
GO:0006402	mRNA catabolic process	0.033890163	0.239292035
MP:0008813	decreased common myeloid progenitor cell number	0.033797328	0.239319527
ENSG00000114867	EIF4G1 subnetwork	0.033922179	0.239357311
MP:0003448	altered tumor morphology	0.033837142	0.239361702
MP:0006082	CNS inflammation	0.033787742	0.239402013
MP:0001654	hepatic necrosis	0.034012498	0.239687684
ENSG00000140600	SH3GL3 subnetwork	0.034104537	0.2401649
KEGG_PHOSPHATIDYLINOSITOL_SIGNALING_SYSTEM	KEGG_PHOSPHATIDYLINOSITOL_SIGNALING_SYSTEM	0.034148444	0.240523838
GO:0050810	regulation of steroid biosynthetic process	0.034206683	0.240617647
ENSG00000166441	RPL27A subnetwork	0.034245408	0.240628672
MP:0005621	abnormal cell physiology	0.034237655	0.240652557
MP:0002446	abnormal macrophage morphology	0.034280896	0.240669014
ENSG00000070159	PTPN3 subnetwork	0.034279212	0.240810335
ENSG00000086189	DIMT1 subnetwork	0.034484695	0.242228739
GO:0042517	positive regulation of tyrosine phosphorylation of Stat3	0.034547681	0.242819461
ENSG00000146950	SHROOM2 subnetwork	0.034612188	0.243292326
GO:0043560	insulin receptor substrate binding	0.034710368	0.244145199
ENSG00000155506	LARP1 subnetwork	0.03476518	0.244558221
ENSG00000168542	COL3A1 subnetwork	0.034949027	0.24619883
ENSG00000171105	INSR subnetwork	0.035099626	0.247223846
REACTOME_MYD88_CASCADE_INITIATED_ON_PLASMA_MEMBRANE	REACTOME_MYD88_CASCADE_INITIATED_ON_PLASMA_MEMBRANE	0.03521243	0.247466511
ENSG00000182511	FES subnetwork	0.035143757	0.247488318
MP:0005012	decreased eosinophil cell number	0.035164635	0.24757735
REACTOME_TOLL_LIKE_RECEPTOR_5_TLR5_CASCADE	REACTOME_TOLL_LIKE_RECEPTOR_5_TLR5_CASCADE	0.03521243	0.247610723
ENSG00000168477	TNXB subnetwork	0.035190993	0.247666278
REACTOME_TOLL_LIKE_RECEPTOR_10_TLR10_CASCADE	REACTOME_TOLL_LIKE_RECEPTOR_10_TLR10_CASCADE	0.03521243	0.247755102
ENSG00000168918	INPP5D subnetwork	0.03532893	0.248195576
KEGG_FC_EPSILON_RI_SIGNALING_PATHWAY	KEGG_FC_EPSILON_RI_SIGNALING_PATHWAY	0.035407239	0.248545666
MP:0001190	reddish skin	0.035465067	0.24875
ENSG00000170260	ZNF212 subnetwork	0.035502487	0.248925044
REACTOME_MYD88_INDEPENDENT_CASCADE_INITIATED_ON_PLASMA_MEMBRANE	REACTOME_MYD88_INDEPENDENT_CASCADE_INITIATED_ON_PLASMA_MEMBRANE	0.035626355	0.249448956
ENSG00000179409	GEMIN4 subnetwork	0.035616745	0.249506674
ENSG00000067182	TNFRSF1A subnetwork	0.035590319	0.24956446
KEGG_CELL_ADHESION_MOLECULES_CAMS	KEGG_CELL_ADHESION_MOLECULES_CAMS	0.03567273	0.249710145

ENSG00000087250	MT3 subnetwork	0.035702556	0.249797219
MP:0010373	myeloid hyperplasia	0.035824622	0.250144592
REACTOME_ENERGY_DEPENDENT	REACTOME_ENERGY_DEPENDENT_REGULATION_OF_M	0.035809871	0.250260417
MP:0003025	increased vasoconstriction	0.035781244	0.250289519
ENSG00000114125	RNF7 subnetwork	0.035909759	0.250722543
ENSG00000212695	ENSG00000212695 subnetwork	0.036134993	0.252019619
GO:0034976	response to endoplasmic reticulum stress	0.036110227	0.252020785
GO:0035258	steroid hormone receptor binding	0.036095099	0.252108608
GO:0050663	cytokine secretion	0.036326863	0.253344867
GO:0045060	negative thymic T cell selection	0.036378964	0.253542627
ENSG00000128594	LRR4 subnetwork	0.036371316	0.253573487
GO:0045089	positive regulation of innate immune response	0.036502615	0.254202648
GO:0002861	regulation of inflammatory response to antigenic stimuli	0.036588881	0.254482759
ENSG00000162419	GMEB1 subnetwork	0.036578771	0.254542841
ENSG00000130340	SNX9 subnetwork	0.036561503	0.254574223
ENSG00000169372	CRADD subnetwork	0.036704074	0.255112005
ENSG00000120509	PDZD11 subnetwork	0.036885834	0.256483075
ENSG00000140350	ANP32A subnetwork	0.03688332	0.25663031
ENSG00000126070	EIF2C3 subnetwork	0.036951088	0.256737385
ENSG00000206353	SKIV2L subnetwork	0.037000771	0.256905444
ENSG00000102096	PIM2 subnetwork	0.037173425	0.256938892
REACTOME_PLATELET_HOMEOST	REACTOME_PLATELET_HOMEOSTASIS	0.037114878	0.257065217
ENSG00000163877	SNIP1 subnetwork	0.037167161	0.257085714
REACTOME_INTERLEUKIN:1_SIGN	REACTOME_INTERLEUKIN:1_SIGNALING	0.037106986	0.257126503
KEGG_NEUROTROPHIN_SIGNALIN	KEGG_NEUROTROPHIN_SIGNALING_PATHWAY	0.037081163	0.257130584
ENSG00000079335	CDC14A subnetwork	0.037235916	0.257130633
GO:0031968	organelle outer membrane	0.037150685	0.257146941
MP:0002027	lung adenocarcinoma	0.037223048	0.257191781
ENSG00000114686	MRPL3 subnetwork	0.037333184	0.257264957
ENSG00000161016	RPL8 subnetwork	0.037314624	0.257354618
GO:0005160	transforming growth factor beta receptor binding	0.037435103	0.258058087
MP:0009356	decreased liver triglyceride level	0.037595097	0.259191804
ENSG00000055332	EIF2AK2 subnetwork	0.03772195	0.259829545
REACTOME_ACTIVATED_TLR4_SIC	REACTOME_ACTIVATED_TLR4_SIGNALLING	0.037714376	0.259835134
GO:0045732	positive regulation of protein catabolic process	0.037710809	0.259982935
GO:0046638	positive regulation of alpha-beta T cell differentiation	0.037797286	0.260221465
ENSG00000166164	BRD7 subnetwork	0.037945137	0.261435868
ENSG00000173917	HOXB2 subnetwork	0.038144528	0.262563812
MP:0010769	abnormal survival	0.03822364	0.263002833
ENSG00000153922	CHD1 subnetwork	0.038214242	0.263038549
ENSG00000173011	TADA2B subnetwork	0.038390696	0.263865308
ENSG00000156802	ATAD2 subnetwork	0.038387691	0.264014723
ENSG00000108984	MAP2K6 subnetwork	0.038535132	0.264612776
ENSG00000120699	EXOSC8 subnetwork	0.038524453	0.264762443
MP:0004510	myositis	0.038597583	0.264858757
ENSG00000099875	MKNK2 subnetwork	0.038646069	0.265019763
ENSG00000115738	ID2 subnetwork	0.038698112	0.265208804
ENSG00000063438	AHRR subnetwork	0.038713291	0.265228426
ENSG00000131503	ANKHD1 subnetwork	0.038764442	0.265549296
MP:0005670	abnormal white adipose tissue physiology	0.038755661	0.265586246
GO:0051023	regulation of immunoglobulin secretion	0.039052523	0.266863406
REACTOME_NFKB_AND_MAP_KIN	REACTOME_NFKB_AND_MAP_KINASES_ACTIVATION_M	0.039039352	0.266929134
ENSG00000149948	HMGA2 subnetwork	0.039024279	0.266966798
ENSG00000177426	TGIF1 subnetwork	0.039165917	0.266993831

MP:0002451	abnormal macrophage physiology	0.039007263	0.267004505
ENSG00000183405	ENSG00000183405 subnetwork	0.039500691	0.267093541
GO:0019079	viral genome replication	0.03915913	0.267143659
MP:0005565	increased blood urea nitrogen level	0.039106948	0.267162921
ENSG00000156976	EIF4A2 subnetwork	0.039495087	0.26718663
KEGG_NOD_LIKE_RECEPTOR_SIG	KEGG_NOD_LIKE_RECEPTOR_SIGNALING_PATHWAY	0.03915258	0.267293655
MP:0008080	abnormal CD8-positive T cell differentiation	0.039553405	0.267306622
MP:0000600	liver hypoplasia	0.039479053	0.267307692
REACTOME_EICOSANOID_LIGAND	REACTOME_EICOSANOID_LIGAND:BINDING_RECEPTORS	0.039465995	0.267373118
ENSG00000198286	CARD11 subnetwork	0.039308195	0.267469205
ENSG00000124588	NQO2 subnetwork	0.039589828	0.267509728
ENSG00000135968	GCC2 subnetwork	0.039462277	0.267522321
ENSG00000143851	PTPN7 subnetwork	0.039254957	0.267544843
GO:0004428	inositol or phosphatidylinositol kinase activity	0.039572298	0.267547275
ENSG00000179071	CCDC89 subnetwork	0.039608273	0.267555556
GO:0042493	response to drug	0.039303978	0.267591036
ENSG00000206560	ANKRD28 subnetwork	0.039441695	0.267615857
ENSG00000105229	PIAS4 subnetwork	0.039431465	0.26773743
ENSG00000100968	NFATC4 subnetwork	0.039427495	0.267859139
REACTOME_NONSENSE_MEDIATE	REACTOME_NONSENSE_MEDIATED_DECAY_ENHANCED	0.039415497	0.267897092
MP:0003984	embryonic growth retardation	0.039747605	0.267914587
REACTOME_NONSENSE:MEDIATE	REACTOME_NONSENSE:MEDIATED_DECAY	0.039415497	0.268047006
ENSG00000113387	SUB1 subnetwork	0.039739154	0.268063263
GO:0050691	regulation of defense response to virus by host	0.039719857	0.26815658
ENSG00000165943	MOAP1 subnetwork	0.039833245	0.268486696
GO:0019783	small conjugating protein-specific protease activity	0.039943317	0.268826135
ENSG00000182953	ENSG00000182953 subnetwork	0.039917912	0.268864266
GO:0032770	positive regulation of monooxygenase activity	0.039988064	0.268898727
ENSG00000167526	RPL13 subnetwork	0.040030908	0.269109513
MP:0005181	decreased circulating estradiol level	0.040112979	0.269679381
ENSG00000139613	SMARCC2 subnetwork	0.040208426	0.270331492
REACTOME_SIGNALLING_BY_NGF	REACTOME_SIGNALLING_BY_NGF	0.040270043	0.270734401
MP:0002740	heart hypoplasia	0.040362498	0.271109272
GO:0048146	positive regulation of fibroblast proliferation	0.040429184	0.271251378
GO:0030838	positive regulation of actin filament polymerization	0.040423032	0.271345836
ENSG00000102387	TAF7L subnetwork	0.040529346	0.271751101
MP:0004950	abnormal brain vasculature morphology	0.04051515	0.271790634
ENSG00000166681	NGFRAP1 subnetwork	0.040575608	0.27187672
MP:0000359	abnormal mast cell morphology	0.04059864	0.271892189
GO:0046965	retinoid X receptor binding	0.04069069	0.272374931
GO:0006954	inflammatory response	0.040713061	0.272417582
ENSG00000198824	CHAMP1 subnetwork	0.041135078	0.274712329
REACTOME_TOLL_RECEPTOR_CA	REACTOME_TOLL_RECEPTOR_CASCADES	0.041121824	0.274780702
ENSG00000204103	MAFB subnetwork	0.041109643	0.274794295
MP:0005185	decreased circulating progesterone level	0.041097021	0.274890231
ENSG00000162924	REL subnetwork	0.041076052	0.274903899
MP:0005517	decreased liver regeneration	0.041491286	0.276725082
GO:0045577	regulation of B cell differentiation	0.041616733	0.277285167
ENSG00000109475	RPL34 subnetwork	0.04173099	0.277759563
ENSG00000105662	CRTC1 subnetwork	0.041738472	0.277799017
ENSG00000140575	IQGAP1 subnetwork	0.041765962	0.277811135
GO:0051260	protein homooligomerization	0.041722568	0.27788409
ENSG00000116095	PLEKHA3 subnetwork	0.041717587	0.278008753
ENSG00000107625	DDX50 subnetwork	0.041892281	0.278587016

ENSG00000121892	PDS5A subnetwork	0.041927526	0.278625954
GO:0004402	histone acetyltransferase activity	0.04200861	0.278991826
GO:0045646	regulation of erythrocyte differentiation	0.042088672	0.279411765
REACTOME_CREB_PHOSPHORYLA	REACTOME_CREB_PHOSPHORYLATION_THROUGH_THE	0.042160297	0.279472539
ENSG00000107882	SUFU subnetwork	0.042136721	0.279488575
ENSG00000125733	TRIP10 subnetwork	0.042108483	0.279504627
GO:0045428	regulation of nitric oxide biosynthetic process	0.042183272	0.279538043
MP:0005076	abnormal cell differentiation	0.042228869	0.279766431
GO:0032965	regulation of collagen biosynthetic process	0.042275264	0.280157438
MP:0003887	increased hepatocyte apoptosis	0.042350106	0.28049376
ENSG00000137996	RTCD1 subnetwork	0.04243374	0.281182213
ENSG00000006715	VPS41 subnetwork	0.0425614	0.28200542
MP:0008174	decreased follicular B cell number	0.042584394	0.282042254
ENSG00000072195	SPEG subnetwork	0.042735291	0.282531098
GO:0033993	response to lipid	0.04268812	0.282539253
MP:0002080	prenatal lethality	0.042732292	0.282683983
ENSG00000130520	LSM4 subnetwork	0.042856643	0.28327027
ENSG00000188386	PPP3R2 subnetwork	0.042919597	0.283576445
KEGG_MAPK_SIGNALING_PATHW	KEGG_MAPK_SIGNALING_PATHWAY	0.04299072	0.283675121
MP:0010900	abnormal pulmonary interalveolar septum morphology	0.042980284	0.283774298
ENSG00000115616	SLC9A2 subnetwork	0.043139884	0.284213362
GO:0007292	female gamete generation	0.043105578	0.28425027
ENSG00000169136	ATF5 subnetwork	0.043130946	0.284339623
GO:0033613	activating transcription factor binding	0.043452649	0.284413498
REACTOME_IRAK2_MEDIATED_A	REACTOME_IRAK2_MEDIATED_ACTIVATION_OF_TAK1_C	0.043350014	0.284541063
ENSG00000124486	USP9X subnetwork	0.043448526	0.284565916
MP:0004952	increased spleen weight	0.043496994	0.284582441
ENSG00000182621	PLCB1 subnetwork	0.043417573	0.284603004
ENSG00000124788	ATXN1 subnetwork	0.043246263	0.284607104
GO:0001912	positive regulation of leukocyte mediated cytotoxicity	0.043433714	0.28463807
REACTOME_TRAF6_MEDIATED_I	REACTOME_TRAF6_MEDIATED_INDUCION_OF_TAK1_C	0.043350014	0.284693878
MP:0005251	blepharitis	0.043281267	0.284696073
MP:0009346	decreased trabecular bone thickness	0.043301276	0.284704301
ENSG00000122965	RBM19 subnetwork	0.043239288	0.284706516
REACTOME_RESPONSE_TO_ELEV	REACTOME_RESPONSE_TO_ELEVATED_PLATELET_CYTO	0.043348766	0.284846857
MP:0001787	pericardial edema	0.043698686	0.285721925
MP:0001655	multifocal hepatic necrosis	0.043682649	0.285794543
GO:0045954	positive regulation of natural killer cell mediated cytotox	0.043769799	0.286171917
GO:0002717	positive regulation of natural killer cell mediated immuni	0.043769799	0.286324786
ENSG00000133703	KRAS subnetwork	0.043817329	0.286339381
KEGG_COLORECTAL_CANCER	KEGG_COLORECTAL_CANCER	0.043755404	0.286370925
ENSG00000147140	NONO subnetwork	0.043849425	0.2864
MP:0008246	abnormal leukocyte morphology	0.043914145	0.286600959
ENSG00000069667	RORA subnetwork	0.043892174	0.286620469
GO:0052548	regulation of endopeptidase activity	0.044006805	0.287040979
ENSG00000136352	NKX2-1 subnetwork	0.043995986	0.287087327
ENSG00000161970	RPL26 subnetwork	0.044072734	0.287367021
ENSG00000127388	ENSG00000127388 subnetwork	0.044156982	0.287672689
MP:0008673	decreased interleukin-13 secretion	0.04418023	0.287679235
ENSG00000197558	ENSG00000197558 subnetwork	0.044156982	0.287825625
MP:0003606	kidney failure	0.044294374	0.288428875
ENSG00000090659	CD209 subnetwork	0.044378385	0.288779841
ENSG00000120333	MRPS14 subnetwork	0.044419643	0.288944857
GO:0004843	ubiquitin-specific protease activity	0.044572029	0.289285714

MP:0009230	abnormal sperm head morphology	0.044619249	0.289323467
ENSG00000196498	NCOR2 subnetwork	0.044521404	0.289327331
ENSG00000132109	TRIM21 subnetwork	0.044658582	0.289408347
ENSG00000206258	TNXB subnetwork	0.044614466	0.289423585
ENSG00000087266	SH3BP2 subnetwork	0.044565855	0.289438857
ENSG00000163558	PRKCI subnetwork	0.044514412	0.28945416
ENSG00000120798	NR2C1 subnetwork	0.044947029	0.291420275
GO:0051353	positive regulation of oxidoreductase activity	0.045098762	0.291442865
MP:0004130	abnormal muscle cell glucose uptake	0.045034287	0.291486558
GO:0030120	vesicle coat	0.045089303	0.291517387
ENSG00000147905	ZCCHC7 subnetwork	0.045027056	0.291561181
ENSG00000073756	PTGS2 subnetwork	0.045147661	0.291657895
ENSG00000143093	FAM40A subnetwork	0.045019579	0.291688654
ENSG00000086065	CHMP5 subnetwork	0.045229284	0.291899001
GO:0032507	maintenance of protein location in cell	0.045389458	0.292981073
ENSG00000100316	RPL3 subnetwork	0.045523057	0.293363064
REACTOME_PLATELET_ACTIVATION	REACTOME_PLATELET_ACTIVATION_SIGNALING_AND_A	0.045450557	0.29340515
GO:0043901	negative regulation of multi-organism process	0.045513481	0.293490814
ENSG00000117450	PRDX1 subnetwork	0.045495053	0.293539916
GO:0042306	regulation of protein import into nucleus	0.045579051	0.293654955
MP:0001715	placental labyrinth hypoplasia	0.045626536	0.293867925
ENSG00000082701	GSK3B subnetwork	0.045943977	0.294548774
GO:0045058	T cell selection	0.045989318	0.294551616
GO:0042267	natural killer cell mediated cytotoxicity	0.045785353	0.294659686
REACTOME_TOLL_LIKE_RECEPTOR	REACTOME_TOLL_LIKE_RECEPTOR_TLR6TLR2_CASCADE	0.045940262	0.294702505
GO:0002228	natural killer cell mediated immunity	0.045785353	0.294814039
REACTOME_TOLL_LIKE_RECEPTOR	REACTOME_TOLL_LIKE_RECEPTOR_2_TLR2_CASCADE	0.045940262	0.294856397
REACTOME_MYD88MAL_CASCADE	REACTOME_MYD88MAL_CASCADE_INITIATED_ON_PLAS	0.045940262	0.295010449
GO:0034105	positive regulation of tissue remodeling	0.045874283	0.295133438
REACTOME_TOLL_LIKE_RECEPTOR	REACTOME_TOLL_LIKE_RECEPTOR_TLR1TLR2_CASCADE	0.045940262	0.295164663
MP:0003658	abnormal capillary morphology	0.046117711	0.295205836
ENSG00000144852	NR1I2 subnetwork	0.046140878	0.295234375
REACTOME_TRAF3:DEPENDENT_IRF	REACTOME_TRAF3:DEPENDENT_IRF_ACTIVATION_PATH	0.045931944	0.295292887
GO:0045342	MHC class II biosynthetic process	0.046221787	0.295679334
ENSG00000078304	PPP2R5C subnetwork	0.046308277	0.295688312
ENSG00000082175	PGR subnetwork	0.04633835	0.295716511
ENSG00000177106	EPS8L2 subnetwork	0.046302064	0.295841996
ENSG00000160293	VAV2 subnetwork	0.046287256	0.295865835
MP:0002672	abnormal branchial arch artery morphology	0.046284078	0.295967742
ENSG00000179271	GADD45GIP1 subnetwork	0.046393013	0.296133887
ENSG00000206305	HLA-DQA1 subnetwork	0.046537959	0.296630378
ENSG00000206413	ENSG00000206413 subnetwork	0.046595984	0.296633868
ENSG00000206239	ENSG00000206239 subnetwork	0.046537959	0.296784232
ENSG00000206493	HLA-E subnetwork	0.046595984	0.296787565
ENSG00000169031	COL4A3 subnetwork	0.046742722	0.297490947
ENSG00000118194	TNNT2 subnetwork	0.046736194	0.297619048
GO:0042506	tyrosine phosphorylation of Stat5 protein	0.046972811	0.298296335
ENSG00000086015	MAST2 subnetwork	0.046904678	0.298319545
ENSG00000174748	RPL15 subnetwork	0.046953723	0.298321281
ENSG00000000938	FGR subnetwork	0.04694486	0.298397933
ENSG00000143155	TIPRL subnetwork	0.047087127	0.298506694
ENSG00000092820	EZR subnetwork	0.047046052	0.298581743
ENSG00000120693	SMAD9 subnetwork	0.047080786	0.298583205
ENSG00000052749	RRP12 subnetwork	0.047223532	0.298587571

ENSG00000069431	ABCC9 subnetwork	0.047033067	0.298684211
KEGG_ENDOMETRIAL_CANCER	KEGG_ENDOMETRIAL_CANCER	0.04722101	0.29868962
GO:0051707	response to other organism	0.047080321	0.298737113
GO:0051235	maintenance of location	0.047189858	0.29874036
ENSG00000023171	GRAMD1B subnetwork	0.047182825	0.298791152
ENSG00000137547	MRPL15 subnetwork	0.047177146	0.298919197
MP:0010377	abnormal gut flora balance	0.047524546	0.300564392
ENSG00000136485	DCAF7 subnetwork	0.04751436	0.300667351
ENSG00000120889	TNFRSF10B subnetwork	0.047565564	0.300769231
ENSG00000115325	DOK1 subnetwork	0.047752143	0.301099182
ENSG00000086061	DNAJA1 subnetwork	0.047734698	0.301099744
ENSG00000158796	DEDD subnetwork	0.047703911	0.301126472
GO:0042379	chemokine receptor binding	0.047696264	0.301178279
MP:0000465	gastrointestinal hemorrhage	0.04772736	0.301202661
ENSG00000015171	ZMYND11 subnetwork	0.047668283	0.301230138
GO:0090311	regulation of protein deacetylation	0.047850534	0.301325854
ENSG00000182498	ENSG00000182498 subnetwork	0.04783347	0.301377551
ENSG00000096150	RPS18 subnetwork	0.04783347	0.301531394
MP:0008168	decreased B-1a cell number	0.047934768	0.301605505
ENSG00000206212	ENSG00000206212 subnetwork	0.04783347	0.301685393
KEGG_LONG_TERM_POTENTIATION	KEGG_LONG_TERM_POTENTIATION	0.047826713	0.30183955
ENSG00000213741	RPS29 subnetwork	0.048075256	0.302343352
ENSG00000125447	GGA3 subnetwork	0.048129339	0.302647658
GO:0030968	endoplasmic reticulum unfolded protein response	0.048276244	0.302845528
MP:0008617	increased circulating interleukin-12 level	0.048233454	0.30292472
GO:0009615	response to virus	0.048320379	0.302996445
GO:0034620	cellular response to unfolded protein	0.048276244	0.302999492
ENSG00000177728	KIAA0195 subnetwork	0.048214533	0.303002545
GO:0031663	lipopolysaccharide-mediated signaling pathway	0.048365563	0.303071066
ENSG00000157933	SKI subnetwork	0.048438212	0.303247083
ENSG00000029725	RABEP1 subnetwork	0.048602542	0.304054739
ENSG00000067048	DDX3Y subnetwork	0.048602331	0.304208925
GO:0051090	regulation of sequence-specific DNA binding transcription	0.048738043	0.305015198
ENSG00000103994	ZFP106 subnetwork	0.048772485	0.305086032
ENSG00000104825	NFKB1B subnetwork	0.048755806	0.305088608
ENSG00000185630	PBX1 subnetwork	0.04883062	0.305260496
ENSG00000132906	CASP9 subnetwork	0.048925626	0.306016178
GO:0031625	ubiquitin protein ligase binding	0.049047233	0.306619505
GO:0030125	clathrin vesicle coat	0.049243741	0.307329975
ENSG00000137171	KLC4 subnetwork	0.049151273	0.30739899
ENSG00000182899	RPL35A subnetwork	0.049171194	0.307420495
GO:0032496	response to lipopolysaccharide	0.049238175	0.307484879
MP:0010180	increased susceptibility to weight loss	0.049218649	0.307513868
REACTOME_TOLL_LIKE_RECEPTOR_4_TLR4_CASCADE	REACTOME_TOLL_LIKE_RECEPTOR_4_TLR4_CASCADE	0.04928976	0.307527694
MP:0004201	fetal growth retardation	0.049208242	0.307618567
ENSG00000165912	PACIN3 subnetwork	0.049322809	0.307674887
MP:0009335	decreased splenocyte proliferation	0.049415557	0.308249497
MP:0005559	increased circulating glucose level	0.049656532	0.309417378
GO:0002544	chronic inflammatory response	0.049624279	0.309451986
ENSG00000132970	WASF3 subnetwork	0.04968821	0.309462851
ENSG00000197943	PLCG2 subnetwork	0.049643116	0.309472362
ENSG00000156136	DCK subnetwork	0.049729647	0.309483191
MP:0002590	increased mean corpuscular volume	0.049838598	0.309854564
ENSG00000131043	C20orf4 subnetwork	0.04988718	0.309944489

GO:0000123	histone acetyltransferase complex	0.049864415	0.309949875
GO:0009607	response to biotic stimulus	0.049974713	0.310290436
GO:0019218	regulation of steroid metabolic process	0.050052249	0.310705353
ENSG00000121031	ENSG00000121031 subnetwork	0.050046841	0.310835836
ENSG00000065243	PKN2 subnetwork	0.050099019	0.3109
MP:0001719	absent vitelline blood vessels	0.050171672	0.311169415
ENSG00000146109	ABT1 subnetwork	0.050337114	0.312112887
ENSG00000149016	TUT1 subnetwork	0.050510478	0.313354968
REACTOME_MTORC1:MEDIATED_	REACTOME_MTORC1:MEDIATED_SIGNALLING	0.050570663	0.313622754
ENSG00000133056	PIK3C2B subnetwork	0.050675466	0.314214464
ENSG00000105810	CDK6 subnetwork	0.050733815	0.314581256
ENSG00000135932	CAB39 subnetwork	0.050780561	0.314598904
GO:0005901	caveola	0.050937702	0.315231458
ENSG00000141052	MYOCD subnetwork	0.050922094	0.315338645
ENSG00000130726	TRIM28 subnetwork	0.051139682	0.316517413
MP:0005617	increased susceptibility to type IV hypersensitivity reacti	0.051239288	0.31661699
MP:0000603	pale liver	0.051207662	0.316625249
ENSG00000090989	EXOC1 subnetwork	0.051192594	0.316708105
ENSG00000149806	FAU subnetwork	0.051294401	0.316832175
ENSG00000163519	TRAT1 subnetwork	0.051385478	0.317270471
GO:0070035	purine NTP-dependent helicase activity	0.051559181	0.31817055
GO:0008026	ATP-dependent helicase activity	0.051559181	0.318328373
GO:0051861	glycolipid binding	0.051590841	0.318359762
ENSG00000211899	ENSG00000211899 subnetwork	0.051680019	0.318514851
GO:0002828	regulation of type 2 immune response	0.051675765	0.31867261
ENSG00000007908	SELE subnetwork	0.051851181	0.318864198
REACTOME_NF:KB_IS_ACTIVATED	REACTOME_NF:KB_IS_ACTIVATED_AND_SIGNALS_SURV	0.051833627	0.318898221
MP:0006143	increased systemic arterial diastolic blood pressure	0.051817839	0.318932279
ENSG00000065882	TBC1D1 subnetwork	0.051891826	0.318978282
ENSG00000163466	ARPC2 subnetwork	0.051808795	0.319040554
ENSG00000160808	MYL3 subnetwork	0.052022268	0.31910389
GO:0005057	receptor signaling protein activity	0.05192365	0.319141589
ENSG00000175793	SFN subnetwork	0.051805135	0.319148936
GO:0000299	integral to membrane of membrane fraction	0.051989802	0.319230769
ENSG00000129347	KRI1 subnetwork	0.052019659	0.319236453
GO:0050729	positive regulation of inflammatory response	0.05201027	0.319344505
ENSG00000114491	UMPS subnetwork	0.052160637	0.319419862
GO:0043027	cysteine-type endopeptidase inhibitor activity involved in	0.052124669	0.319478603
ENSG00000065989	PDE4A subnetwork	0.05210845	0.319512795
ENSG00000170027	YWHAG subnetwork	0.052229927	0.319523576
ENSG00000197958	RPL12 subnetwork	0.052216504	0.31968059
MP:0003103	liver degeneration	0.052463748	0.321035837
MP:0002702	decreased circulating free fatty acid level	0.052551958	0.32124632
GO:0008009	chemokine activity	0.052624228	0.321456596
GO:0050728	negative regulation of inflammatory response	0.052700823	0.321960784
MP:0003936	abnormal reproductive system development	0.052858324	0.323027927
MP:0005464	abnormal platelet physiology	0.052963568	0.323056235
REACTOME_NICD_TRAFFICS_TO_	REACTOME_NICD_TRAFFICS_TO_NUCLEUS	0.052962631	0.323214286
ENSG00000138709	LARP1B subnetwork	0.052920984	0.323237023
REACTOME_NOTCH:HLH_TRANSC	REACTOME_NOTCH:HLH_TRANSCRIPTION_PATHWAY	0.052962631	0.323372491
ENSG00000120899	PTK2B subnetwork	0.053161425	0.324023438
GO:0001562	response to protozoan	0.05313602	0.324035173
ENSG00000134717	BTF3L4 subnetwork	0.053125215	0.324144673
ENSG00000183751	TBL3 subnetwork	0.053252983	0.32442655

REACTOME_TRAF6_MEDIATED_IN	REACTOME_TRAF6_MEDIATED_INDUCION_OF_NFKB_	0.053414898	0.325536585
ENSG00000101266	CSNK2A1 subnetwork	0.053486428	0.32588981
MP:0006042	increased apoptosis	0.053615251	0.326046738
GO:0045063	T-helper 1 cell differentiation	0.053583744	0.32608378
MP:0002724	enhanced wound healing	0.053569808	0.326145224
ENSG00000164742	ADCY1 subnetwork	0.053758141	0.326861314
ENSG00000197122	SRC subnetwork	0.053968277	0.327063107
ENSG00000094631	HDAC6 subnetwork	0.053951958	0.327124818
ENSG00000143190	POU2F1 subnetwork	0.05384071	0.327213035
MP:0000416	sparse hair	0.053945192	0.32723518
ENSG00000083544	TDRD3 subnetwork	0.053920886	0.327297035
GO:0010332	response to gamma radiation	0.054022547	0.327341097
MP:0001613	abnormal vasodilation	0.054263036	0.328540252
ENSG00000105618	PRPF31 subnetwork	0.054296919	0.328599127
ENSG00000213281	NRAS subnetwork	0.054339487	0.328609496
MP:0000274	enlarged heart	0.054702553	0.330823245
ENSG00000135679	MDM2 subnetwork	0.054727507	0.330880929
ENSG00000126226	PCID2 subnetwork	0.05491788	0.331497585
ENSG00000007171	NOS2 subnetwork	0.054955035	0.331554804
ENSG00000084623	EIF3I subnetwork	0.054893663	0.33160058
ENSG00000064300	NGFR subnetwork	0.054916316	0.331657806
ENSG00000011405	PIK3C2A subnetwork	0.054885438	0.331712627
MP:0001130	abnormal ovarian folliculogenesis	0.055224741	0.333132239
REACTOME_AKT_PHOSPHORYLAT	REACTOME_AKT_PHOSPHORYLATES_TARGETS_IN_THE_	0.055283834	0.333188616
ENSG00000121879	PIK3CA subnetwork	0.055320574	0.333341369
ENSG00000121858	TNFSF10 subnetwork	0.055445204	0.333903614
ENSG00000143476	DTL subnetwork	0.055586531	0.334223184
MP:0006117	aortic valve stenosis	0.05563928	0.334278846
ENSG00000130338	TULP4 subnetwork	0.055583615	0.334359962
KEGG_OOCYTE_MEIOSIS	KEGG_OOCYTE_MEIOSIS	0.055690685	0.334382508
GO:0045069	regulation of viral genome replication	0.055551267	0.334441233
ENSG00000101336	HCK subnetwork	0.055572517	0.334448724
REACTOME_REGULATION_OF_AM	REACTOME_REGULATION_OF_AMPK_ACTIVITY_VIA_LKE	0.055782032	0.334726225
GO:0032814	regulation of natural killer cell activation	0.055913984	0.335285646
REACTOME_TOLL_LIKE_RECEPTO	REACTOME_TOLL_LIKE_RECEPTOR_9_TLR9_CASCADE	0.055950316	0.335292706
ENSG00000153187	HNRNPU subnetwork	0.056078265	0.335827338
ENSG00000166949	SMAD3 subnetwork	0.056135102	0.335953979
ENSG00000144895	EIF2A subnetwork	0.056237144	0.336320077
ENSG00000108298	RPL19 subnetwork	0.056289734	0.336566092
GO:0045088	regulation of innate immune response	0.056407089	0.33709369
MP:0008126	increased dendritic cell number	0.056453427	0.337099857
ENSG00000136997	MYC subnetwork	0.0563521	0.33715311
GO:0002702	positive regulation of production of molecular mediator	0.056348368	0.3372427
ENSG00000162616	DNAJB4 subnetwork	0.05640303	0.337254902
REACTOME_METABOLISM_OF_M	REACTOME_METABOLISM_OF_MRNA	0.056557171	0.337535817
ENSG00000163554	SPTA1 subnetwork	0.056756237	0.338400955
MP:0000642	enlarged adrenal glands	0.056971233	0.339037178
ENSG00000112578	BYSL subnetwork	0.056964793	0.339198856
MP:0001958	emphysema	0.056944333	0.339289122
MP:0002136	abnormal kidney physiology	0.057090586	0.339661744
ENSG00000105202	FBL subnetwork	0.057143662	0.339785714
ENSG00000119139	TJP2 subnetwork	0.057299987	0.340304183
ENSG00000123358	NR4A1 subnetwork	0.057258712	0.340433127
ENSG00000085276	MECOM subnetwork	0.057279957	0.340461465

MP:0008965	increased basal metabolism	0.057297919	0.340466001
GO:0042800	histone methyltransferase activity (H3-K4 specific)	0.057637388	0.341169508
MP:0008140	podocyte foot process effacement	0.057636241	0.341307437
GO:0002715	regulation of natural killer cell mediated immunity	0.057629407	0.341469194
GO:0042269	regulation of natural killer cell mediated cytotoxicity	0.057629407	0.341631105
ENSG00000135801	TAF5L subnetwork	0.057495572	0.341638955
MP:0002270	abnormal pulmonary alveolus morphology	0.057562269	0.341646891
ENSG00000169756	LIMS1 subnetwork	0.057599935	0.341674573
ENSG00000148798	INA subnetwork	0.057759675	0.341694274
ENSG00000144935	TRPC1 subnetwork	0.057553626	0.341785375
ENSG00000137177	KIF13A subnetwork	0.057867462	0.342336802
ENSG00000164244	PRRC1 subnetwork	0.057935124	0.342364066
ENSG00000164167	LSM6 subnetwork	0.058000538	0.34251299
REACTOME_PLATELET_DEGRANULATION	REACTOME_PLATELET_DEGRANULATION	0.057993417	0.342627599
GO:0005667	transcription factor complex	0.058163235	0.343578848
ENSG00000095015	MAP3K1 subnetwork	0.058299941	0.344218971
GO:0032350	regulation of hormone metabolic process	0.058471943	0.344813767
KEGG_PRION_DISEASES	KEGG_PRION_DISEASES	0.058455351	0.34490566
MP:0000136	abnormal microglial cell morphology	0.058568285	0.345311027
MP:0008070	absent T cells	0.058724781	0.346021657
ENSG00000166793	YPEL4 subnetwork	0.058700558	0.346043335
ENSG00000185057	ENSG00000185057 subnetwork	0.058840417	0.346217105
ENSG00000198518	HIST1H4E subnetwork	0.059863411	0.346260388
GO:0010893	positive regulation of steroid biosynthetic process	0.058824147	0.346285849
ENSG00000182247	UBE2E2 subnetwork	0.058896709	0.346359793
ENSG00000182217	HIST2H4B subnetwork	0.059863411	0.346420323
ENSG00000154415	PPP1R3A subnetwork	0.058822984	0.34644873
ENSG00000111731	KIAA0528 subnetwork	0.058815852	0.346517647
MP:0003231	abnormal placenta vasculature	0.058931043	0.346525822
ENSG00000198558	HIST1H4L subnetwork	0.059863411	0.346580407
ENSG00000153094	BCL2L11 subnetwork	0.059949554	0.346723581
ENSG00000183941	HIST2H4A subnetwork	0.059863411	0.346740638
MP:0009660	abnormal induced retinal neovascularization	0.059024245	0.346855936
ENSG00000197238	HIST1H4J subnetwork	0.059863411	0.346901018
REACTOME_TRAF6_MEDIATED_INDUCED_PROINFLAMMATORY_RESPONSE	REACTOME_TRAF6_MEDIATED_INDUCED_PROINFLAMMATORY_RESPONSE	0.059067128	0.346927767
ENSG00000197914	HIST1H4K subnetwork	0.059863411	0.347061546
ENSG00000197837	HIST4H4 subnetwork	0.059863411	0.347222222
ENSG00000124529	HIST1H4B subnetwork	0.059863411	0.347383048
ENSG00000071462	WBSCR22 subnetwork	0.060094936	0.347416974
MP:0000010	abnormal abdominal fat pad morphology	0.059233781	0.347469541
ENSG00000103363	TCEB2 subnetwork	0.059216999	0.347538678
ENSG00000198327	HIST1H4F subnetwork	0.059863411	0.347544022
ENSG00000119698	PPP4R4 subnetwork	0.059296969	0.347681499
ENSG00000087269	NOP14 subnetwork	0.060208005	0.347695853
ENSG00000158406	HIST1H4H subnetwork	0.059863411	0.347705146
ENSG00000204673	AKT1S1 subnetwork	0.060253169	0.347719945
ENSG00000137807	KIF23 subnetwork	0.059332182	0.347776217
ENSG00000115966	ATF2 subnetwork	0.060206846	0.347786999
MP:0006344	small second branchial arch	0.059416377	0.347803738
ENSG00000197061	HIST1H4C subnetwork	0.059863411	0.347866419
ENSG00000170315	UBB subnetwork	0.059400436	0.347872838
ENSG00000111530	CAND1 subnetwork	0.059367538	0.347917642
ENSG00000188987	HIST1H4D subnetwork	0.059863411	0.348027842
ENSG00000099901	RANBP1 subnetwork	0.059400114	0.348035547

ENSG00000198339	HIST1H4I subnetwork	0.059863411	0.348189415
GO:0045185	maintenance of protein location	0.059529694	0.348341896
ENSG00000196176	HIST1H4A subnetwork	0.059863411	0.348351138
ENSG00000115234	SNX17 subnetwork	0.059858795	0.348466543
MP:0008477	decreased spleen red pulp amount	0.05983363	0.348489075
ENSG00000165280	VCP subnetwork	0.059829291	0.348604651
ENSG00000117222	RBBP5 subnetwork	0.05978036	0.348626629
ENSG00000170035	UBE2E3 subnetwork	0.05981929	0.348673802
ENSG00000171791	BCL2 subnetwork	0.059762622	0.348695855
GO:0004950	chemokine receptor activity	0.059737241	0.348765144
GO:0001637	G-protein coupled chemoattractant receptor activity	0.059737241	0.348927739
GO:0006417	regulation of translation	0.059727769	0.348997201
MP:0002407	abnormal double-negative T cell morphology	0.059693374	0.349089636
ENSG00000147889	CDKN2A subnetwork	0.05970689	0.349090061
ENSG00000112592	TBP subnetwork	0.060525317	0.349585635
ENSG00000183735	TBK1 subnetwork	0.060794874	0.351127474
MP:0001698	decreased embryo size	0.060889013	0.351448942
ENSG00000008988	RPS20 subnetwork	0.060976272	0.352
ENSG00000085365	ENSG00000085365 subnetwork	0.061036454	0.35222886
MP:0008057	abnormal DNA replication	0.061070741	0.352342673
ENSG00000126351	THRA subnetwork	0.061145999	0.352571166
GO:0048643	positive regulation of skeletal muscle tissue development	0.061294173	0.352980284
ENSG00000196365	LONP1 subnetwork	0.061341354	0.353116407
GO:0002698	negative regulation of immune effector process	0.061284115	0.353119266
GO:0008624	induction of apoptosis by extracellular signals	0.061260389	0.35316659
ENSG00000138685	FGF2 subnetwork	0.061454481	0.353573065
GO:0052547	regulation of peptidase activity	0.061495853	0.353638444
GO:0031100	organ regeneration	0.061479118	0.35364011
ENSG00000010671	BTK subnetwork	0.061507458	0.353682525
ENSG00000121274	PAPD5 subnetwork	0.061905814	0.35571037
ENSG00000165556	CDX2 subnetwork	0.061905676	0.355872943
MP:0011090	partial perinatal lethality	0.061898353	0.355921353
GO:0014896	muscle hypertrophy	0.061967402	0.355981735
ENSG00000141506	PIK3R5 subnetwork	0.062217211	0.356697039
ENSG00000104892	KLC3 subnetwork	0.0622055	0.356859617
KEGG_NON_SMALL_CELL_LUNG_CANCER	KEGG_NON_SMALL_CELL_LUNG_CANCER	0.062186452	0.356908345
GO:0003300	cardiac muscle hypertrophy	0.062360215	0.356912233
MP:0000598	abnormal liver morphology	0.062122587	0.356960292
MP:0001722	pale yolk sac	0.062176773	0.357071168
GO:0014897	striated muscle hypertrophy	0.062360215	0.357074613
GO:0019838	growth factor binding	0.062357755	0.357214383
REACTOME_INNATE_IMMUNE_SYSTEM	REACTOME_INNATE_IMMUNE_SYSTEM	0.062331033	0.357240437
ENSG00000144908	ALDH1L1 subnetwork	0.062538017	0.357659091
MP:0003037	increased infarction size	0.062671371	0.358242507
GO:0005640	nuclear outer membrane	0.062667877	0.358382553
ENSG00000148296	SURF6 subnetwork	0.062850961	0.359097096
ENSG00000157625	TAB3 subnetwork	0.06281936	0.359123922
ENSG00000138193	PLCE1 subnetwork	0.062889269	0.359206349
GO:0010745	negative regulation of macrophage derived foam cell differentiation	0.063068922	0.359551833
REACTOME_PI3K_CASCADE	REACTOME_PI3K_CASCADE	0.063021928	0.359560489
ENSG00000196455	PIK3R4 subnetwork	0.063000761	0.359610154
GO:0050777	negative regulation of immune response	0.063066098	0.359692029
ENSG00000136279	DBNL subnetwork	0.06310281	0.359751131
ENSG00000157106	SMG1 subnetwork	0.063406144	0.361261872

MP:0008478	increased spleen white pulp amount	0.063526946	0.361776673
ENSG00000119638	NEK9 subnetwork	0.063569705	0.361929507
ENSG00000066777	ARFGEF1 subnetwork	0.063669705	0.36241535
GO:0004869	cysteine-type endopeptidase inhibitor activity	0.063668473	0.362579042
ENSG00000129282	MRM1 subnetwork	0.063802343	0.363199458
ENSG00000183207	RUVBL2 subnetwork	0.063850941	0.363373929
ENSG00000135829	DHX9 subnetwork	0.06389124	0.363435528
GO:0042522	regulation of tyrosine phosphorylation of Stat5 protein	0.064002589	0.363963964
GO:0046966	thyroid hormone receptor binding	0.063983677	0.36399279
ENSG00000142867	BCL10 subnetwork	0.064171322	0.364790635
ENSG00000078043	PIAS2 subnetwork	0.064271774	0.365211521
GO:0043525	positive regulation of neuron apoptotic process	0.06431239	0.365317139
ENSG00000211460	TSN subnetwork	0.064345008	0.365377698
REACTOME_P75NTR_SIGNALS_VIA_NF_KB	REACTOME_P75NTR_SIGNALS_VIA_NF_KB	0.064412997	0.365573034
GO:0032602	chemokine production	0.064508106	0.365880503
GO:0050856	regulation of T cell receptor signaling pathway	0.064566776	0.366052986
ENSG00000076944	STXBP2 subnetwork	0.064619525	0.366165919
GO:0043235	receptor complex	0.064594417	0.366270197
ENSG00000145592	RPL37 subnetwork	0.064619062	0.366330193
ENSG00000112306	RPS12 subnetwork	0.065086268	0.367172845
ENSG00000154727	GABPA subnetwork	0.065085108	0.367314567
MP:0000048	abnormal stria vascularis morphology	0.065007371	0.367352415
ENSG00000096433	ITPR3 subnetwork	0.065066393	0.367478766
GO:0002262	myeloid cell homeostasis	0.065001331	0.367494407
MP:0005408	hypopigmentation	0.064995785	0.367614145
REACTOME_RIG_I_MDA5_MEDIATED_INDUCED_RESPONSE	REACTOME_RIG_I_MDA5_MEDIATED_INDUCED_RESPONSE	0.064985771	0.36773399
ENSG00000166333	ILK subnetwork	0.064952017	0.367741935
KEGG_PHENYLALANINE_METABOLISM	KEGG_PHENYLALANINE_METABOLISM	0.06494202	0.367884357
GO:0004691	cAMP-dependent protein kinase activity	0.065268419	0.368013393
ENSG00000108270	AATF subnetwork	0.065351307	0.368451584
ENSG00000088247	KHSRP subnetwork	0.06551094	0.369014712
GO:0043029	T cell homeostasis	0.065578986	0.36902852
ENSG00000134440	NARS subnetwork	0.065482908	0.369090098
ENSG00000099622	CIRBP subnetwork	0.065711405	0.369643653
GO:0031594	neuromuscular junction	0.065784926	0.369692924
ENSG00000124383	MPHOSPH10 subnetwork	0.065743028	0.369701692
MP:0003356	impaired luteinization	0.065813355	0.36975089
ENSG00000133818	RRAS2 subnetwork	0.065884872	0.370008893
REACTOME_MYD88_DEPENDENT_CASCADE_INITIATED_BY_TLR78	REACTOME_MYD88_DEPENDENT_CASCADE_INITIATED_BY_TLR78	0.065964891	0.370213239
REACTOME_TOLL_LIKE_RECEPTOR_78_TLR78_CASCADE	REACTOME_TOLL_LIKE_RECEPTOR_78_TLR78_CASCADE	0.065964891	0.370377778
ENSG00000158092	NCK1 subnetwork	0.066006373	0.370492895
GO:0048660	regulation of smooth muscle cell proliferation	0.066077489	0.370705726
KEGG_WNT_SIGNALING_PATHWAY	KEGG_WNT_SIGNALING_PATHWAY	0.066288833	0.370995575
GO:0008276	protein methyltransferase activity	0.066148322	0.370997783
ENSG00000165219	GAPVD1 subnetwork	0.066265422	0.371004869
MP:0003961	decreased lean body mass	0.066146103	0.371118012
ENSG00000131236	CAP1 subnetwork	0.066258081	0.371147033
ENSG00000115232	ITGA4 subnetwork	0.066215455	0.37116578
ENSG00000167549	CORO6 subnetwork	0.066254864	0.371289322
ENSG00000029363	BCLAF1 subnetwork	0.06645313	0.371649713
MP:0003814	vascular smooth muscle cell hypoplasia	0.066549258	0.372116659
ENSG00000178913	TAF7 subnetwork	0.06660887	0.372119205
ENSG00000105699	LSR subnetwork	0.066540953	0.372126437
GO:0032689	negative regulation of interferon-gamma production	0.066580507	0.372128975

ENSG00000198517	MAFK subnetwork	0.066755843	0.372859665
ENSG00000158186	MRAS subnetwork	0.066808092	0.37300397
ENSG00000203747	FCGR3A subnetwork	0.066882357	0.373170194
ENSG00000115290	GRB14 subnetwork	0.066989512	0.373534597
ENSG00000159593	NAE1 subnetwork	0.067147239	0.374008811
ENSG00000175467	SART1 subnetwork	0.067246567	0.374548657
REACTOME_NEGATIVE_REGULATION_OF_REACTOME_NEGATIVE_REGULATORS_OF_RIG:IMDA5_S		0.067312131	0.374801937
ENSG00000096238	ENSG00000096238 subnetwork	0.067724099	0.376701801
ENSG00000206394	CLIC1 subnetwork	0.067724099	0.376867311
GO:0042347	negative regulation of NF-kappaB import into nucleus	0.067702369	0.377022867
ENSG00000213719	CLIC1 subnetwork	0.067724099	0.377032967
GO:0030879	mammary gland development	0.067699244	0.37716674
GO:0030532	small nuclear ribonucleoprotein complex	0.067962247	0.378050922
ENSG00000104852	SNRNP70 subnetwork	0.068145573	0.37898201
GO:0032388	positive regulation of intracellular transport	0.068287206	0.379517544
ENSG00000185811	IKZF1 subnetwork	0.068347432	0.379811486
ENSG00000115594	IL1R1 subnetwork	0.068414467	0.379951797
GO:0048659	smooth muscle cell proliferation	0.068482901	0.380332895
ENSG00000122406	RPL5 subnetwork	0.068527722	0.380385289
ENSG00000206503	HLA-A subnetwork	0.06872247	0.381342957
ENSG00000162704	ARPC5 subnetwork	0.068698587	0.381400438
GO:2000696	regulation of epithelial cell differentiation involved in kidney	0.068823855	0.381424825
GO:0070229	negative regulation of lymphocyte apoptotic process	0.068776504	0.381460429
ENSG00000157388	CACNA1D subnetwork	0.068899793	0.381681223
GO:0032964	collagen biosynthetic process	0.068883117	0.381760594
MP:0002644	decreased circulating triglyceride level	0.068975423	0.381994762
GO:0017127	cholesterol transporter activity	0.069079324	0.382569808
ENSG00000174485	DENND4A subnetwork	0.069182103	0.38325338
ENSG00000198900	TOP1 subnetwork	0.069321662	0.383529412
GO:0015278	calcium-release channel activity	0.069295129	0.383565824
GO:0032611	interleukin-1 beta production	0.069487031	0.384320557
MP:0005508	abnormal skeleton morphology	0.069570407	0.384588594
ENSG00000123094	RASSF8 subnetwork	0.069642673	0.385030461
MP:0003026	decreased vasoconstriction	0.06971046	0.385254458
ENSG00000138757	G3BP2 subnetwork	0.069793681	0.385586957
ENSG00000164754	RAD21 subnetwork	0.069849758	0.385599479
ENSG00000102309	PIN4 subnetwork	0.069848553	0.385767058
REACTOME_ACTIVATION_OF_THE_REACTOME_ACTIVATION_OF_THE_MRNA_UPON_BINDING		0.069952326	0.385953105
GO:0045624	positive regulation of T-helper cell differentiation	0.070014248	0.386284722
MP:0009640	abnormal renal tubule epithelium morphology	0.070037708	0.386355748
ENSG00000163624	CDS1 subnetwork	0.070090921	0.386491761
MP:0001914	hemorrhage	0.070324624	0.388036411
MP:0009541	increased thymocyte apoptosis	0.070361166	0.388214905
GO:0046890	regulation of lipid biosynthetic process	0.070428048	0.388436553
MP:0008561	decreased tumor necrosis factor secretion	0.070458594	0.388593074
ENSG00000106355	LSM5 subnetwork	0.070599012	0.38929035
MP:0001119	abnormal female reproductive system morphology	0.070646633	0.389338235
ENSG00000145741	BTF3 subnetwork	0.070733546	0.389481641
ENSG00000112186	CAP2 subnetwork	0.070756424	0.389507772
MP:0000754	paresis	0.07071312	0.389585134
GO:0018205	peptidyl-lysine modification	0.070689119	0.389602248
GO:0019216	regulation of lipid metabolic process	0.070912963	0.390120794
ENSG00000175745	NR2F1 subnetwork	0.070977182	0.390172414
REACTOME_EARLY_PHASE_OF_HIV_REACTOME_EARLY_PHASE_OF_HIV_LIFE_CYCLE		0.070899941	0.390224428

ENSG00000117461	PIK3R3 subnetwork	0.070970337	0.390275981
REACTOME_REGULATION_OF_LIPID_METABOLISM_BY_I	REACTOME_REGULATION_OF_LIPID_METABOLISM_BY_I	0.071037046	0.390542869
REACTOME_NUCLEAR_EVENTS_K	REACTOME_NUCLEAR_EVENTS_KINASE_AND_TRANSCRI	0.071137339	0.390913006
MP:0004982	abnormal osteoclast morphology	0.071231859	0.390942341
MP:0011108	partial embryonic lethality during organogenesis	0.071210798	0.391024537
GO:0010506	regulation of autophagy	0.071324705	0.391268817
ENSG00000164605	ENSG00000164605 subnetwork	0.071421959	0.391938951
GO:0042613	MHC class II protein complex	0.07160758	0.392844865
ENSG00000141644	MBD1 subnetwork	0.071694808	0.393148625
ENSG00000162624	LHX8 subnetwork	0.071758592	0.393261803
ENSG00000154556	SORBS2 subnetwork	0.071756423	0.393430657
GO:0045767	regulation of anti-apoptosis	0.072315771	0.394807692
ENSG00000141551	CSNK1D subnetwork	0.072348047	0.39480991
ENSG00000105364	MRPL4 subnetwork	0.072064949	0.39487784
ENSG00000133794	ARNTL subnetwork	0.072194456	0.394905822
ENSG00000184634	MED12 subnetwork	0.072302748	0.394955109
GO:0070670	response to interleukin-4	0.07203153	0.395002145
GO:0035097	histone methyltransferase complex	0.07217434	0.395010707
GO:0051224	negative regulation of protein transport	0.072061966	0.39504717
ENSG00000138190	EXOC6 subnetwork	0.072290391	0.395081266
GO:0034708	methyltransferase complex	0.07217434	0.395179949
GO:0043621	protein self-association	0.072282791	0.395250321
GO:0051091	positive regulation of sequence-specific DNA binding tra	0.072513546	0.395518566
ENSG00000115718	PROC subnetwork	0.07250439	0.395666097
GO:0006473	protein acetylation	0.072566739	0.395755119
GO:0022407	regulation of cell-cell adhesion	0.072806443	0.39657155
MP:0010763	abnormal hematopoietic stem cell physiology	0.072770291	0.396591393
GO:0032642	regulation of chemokine production	0.072729033	0.396609808
ENSG00000156374	PCGF6 subnetwork	0.072763563	0.396653879
REACTOME_PLCG1_EVENTS_IN_ERBB2_SIGNALING	REACTOME_PLCG1_EVENTS_IN_ERBB2_SIGNALING	0.072988179	0.396896259
KEGG_UBIQUITIN_MEDIATED_PRO	KEGG_UBIQUITIN_MEDIATED_PROTEOLYSIS	0.072913422	0.396914894
GO:0010712	regulation of collagen metabolic process	0.072965119	0.396916206
ENSG00000151461	UPF2 subnetwork	0.072889956	0.396934866
ENSG00000215120	ENSG00000215120 subnetwork	0.073055783	0.396941376
MP:0000364	abnormal vascular regression	0.073038855	0.396961326
ENSG00000142541	RPL13A subnetwork	0.073149834	0.397197452
ENSG00000155508	CNOT8 subnetwork	0.073523476	0.397970402
ENSG00000175333	ENSG00000175333 subnetwork	0.073332455	0.397984726
ENSG00000060140	STYK1 subnetwork	0.073464254	0.398010161
ENSG00000188191	PRKAR1B subnetwork	0.073557069	0.398034658
ENSG00000170145	SIK2 subnetwork	0.073431564	0.398050847
GO:0035035	histone acetyltransferase binding	0.073414678	0.398092412
ENSG00000157873	TNFRSF14 subnetwork	0.073510683	0.398096447
GO:0006475	internal protein amino acid acetylation	0.073673309	0.398100464
GO:0070482	response to oxygen levels	0.073499858	0.39813796
KEGG_RIG_I_LIKE_RECEPTOR_SIG	KEGG_RIG_I_LIKE_RECEPTOR_SIGNALING_PATHWAY	0.07360855	0.398141107
ENSG00000163029	SMC6 subnetwork	0.073324626	0.39815365
ENSG00000125968	ID1 subnetwork	0.073402576	0.398176421
ENSG00000125508	SRMS subnetwork	0.073464254	0.398178738
ENSG00000184009	ACTG1 subnetwork	0.073657316	0.398226351
ENSG00000163283	ALPP subnetwork	0.073818182	0.399008439
ENSG00000151693	ASAP2 subnetwork	0.074055333	0.399473241
ENSG00000145349	CAMK2D subnetwork	0.073957769	0.399493884
GO:0032816	positive regulation of natural killer cell activation	0.074093417	0.399557709

GO:0001779	natural killer cell differentiation	0.074036349	0.399599494
ENSG00000138767	CNOT6L subnetwork	0.074134623	0.399621053
ENSG00000167085	PHB subnetwork	0.074190782	0.399852694
ENSG00000087077	TRIP6 subnetwork	0.074248764	0.39995793
ENSG00000140992	PDPK1 subnetwork	0.074356725	0.4004836
MP:0005501	abnormal skin physiology	0.07441506	0.400672551
ENSG00000060069	CTDP1 subnetwork	0.074506479	0.401071429
MP:0001711	abnormal placenta morphology	0.074677294	0.401826196
GO:0051272	positive regulation of cellular component movement	0.074667714	0.401973961
REACTOME_TAK1_ACTIVATES_NF	REACTOME_TAK1_ACTIVATES_NFKB_BY_PHOSPHORYLA	0.074780222	0.402161141
GO:2000241	regulation of reproductive process	0.074813749	0.40232802
ENSG00000141959	PFKL subnetwork	0.07503058	0.403140704
ENSG00000197303	ENSG00000197303 subnetwork	0.074950896	0.403207547
MP:0000692	small spleen	0.075029956	0.403288647
MP:0002458	abnormal B cell number	0.075091232	0.403348681
ENSG00000042980	ADAM28 subnetwork	0.075015897	0.403436714
MP:0002423	abnormal mast cell physiology	0.075282602	0.404013378
ENSG00000108654	DDX5 subnetwork	0.075265334	0.404077792
GO:0050715	positive regulation of cytokine secretion	0.075250593	0.404142259
ENSG00000197471	SPN subnetwork	0.075365532	0.404262432
MP:0002276	abnormal lung interstitium morphology	0.07558581	0.404904007
MP:0004566	myocardial fiber degeneration	0.075627169	0.404964539
ENSG00000157344	ENSG00000157344 subnetwork	0.075569759	0.405010438
KEGG_ANTIGEN_PROCESSING_AN	KEGG_ANTIGEN_PROCESSING_AND_PRESENTATION	0.075560182	0.405116959
ENSG00000115761	NOL10 subnetwork	0.075692587	0.405150125
ENSG00000152942	RAD17 subnetwork	0.075884863	0.405578684
ENSG00000159840	ZYX subnetwork	0.075911002	0.405617978
ENSG00000172795	DCP2 subnetwork	0.075821568	0.405666667
ENSG00000099917	MED15 subnetwork	0.075875957	0.405726781
ENSG00000101224	CDC25B subnetwork	0.075802041	0.405731555
ENSG00000133657	ATP13A3 subnetwork	0.076399576	0.405764463
GO:0030140	trans-Golgi network transport vesicle	0.075973092	0.405779626
ENSG00000111252	SH2B3 subnetwork	0.07631822	0.405789909
MP:0004984	increased osteoclast cell number	0.075961697	0.405865225
MP:0000750	abnormal muscle regeneration	0.076390327	0.405890864
ENSG00000109606	DHX15 subnetwork	0.076134531	0.405892116
MP:0002417	abnormal megakaryocyte morphology	0.076071221	0.40589946
ENSG00000118007	STAG1 subnetwork	0.076303306	0.405937112
ENSG00000136718	IMP4 subnetwork	0.076279661	0.40598096
ENSG00000142494	SLC47A1 subnetwork	0.076106164	0.406000831
GO:0042611	MHC protein complex	0.076268214	0.406004141
GO:0004386	helicase activity	0.07604542	0.406005819
GO:0051220	cytoplasmic sequestering of protein	0.076126457	0.406019095
ENSG00000096171	VARS subnetwork	0.076248035	0.406027341
ENSG000000204394	VARS subnetwork	0.076248035	0.406195607
GO:0046885	regulation of hormone biosynthetic process	0.076238477	0.406343284
GO:0016581	NuRD complex	0.076219397	0.406428868
ENSG00000099964	ENSG00000099964 subnetwork	0.076647618	0.406833196
ENSG00000144744	UBA3 subnetwork	0.076657726	0.406892282
GO:0030275	LRR domain binding	0.076640593	0.407001239
GO:0032675	regulation of interleukin-6 production	0.076844179	0.407838284
MP:0001290	delayed eyelid opening	0.077113232	0.408920478
ENSG00000109618	SEPSECS subnetwork	0.077107047	0.409047815
GO:0042991	transcription factor import into nucleus	0.07723727	0.409122735

ENSG00000104689	TNFRSF10A subnetwork	0.077106297	0.409216495
ENSG00000176444	CLK2 subnetwork	0.077271509	0.409242487
ENSG00000164934	DCAF13 subnetwork	0.077362905	0.409354441
GO:0090316	positive regulation of intracellular protein transport	0.07736143	0.40952283
REACTOME_CGMP_EFFECTS	REACTOME_CGMP_EFFECTS	0.077332306	0.409547325
ENSG00000198909	MAP3K3 subnetwork	0.077443096	0.409576654
ENSG00000137947	GTF2B subnetwork	0.077510033	0.409737058
GO:0044445	cytosolic part	0.077670018	0.410328542
GO:0003746	translation elongation factor activity	0.077739831	0.410488506
ENSG00000206406	CSNK2B subnetwork	0.078027882	0.411229508
ENSG00000196591	HDAC2 subnetwork	0.077954675	0.411366434
ENSG00000204435	CSNK2B subnetwork	0.078027882	0.411398114
ENSG00000163050	ADCK3 subnetwork	0.078099817	0.411552642
ENSG00000206300	ENSG00000206300 subnetwork	0.078027882	0.411566858
MP:0003303	peritoneal inflammation	0.078284111	0.411947627
ENSG00000162244	RPL29 subnetwork	0.078280217	0.412095784
ENSG00000061938	TNK2 subnetwork	0.078466905	0.412111928
ENSG00000082641	NFE2L1 subnetwork	0.078245166	0.412141687
ENSG00000106443	PHF14 subnetwork	0.078452434	0.41225991
ENSG00000090020	SLC9A1 subnetwork	0.078387769	0.412310838
KEGG_P53_SIGNALING_PATHWAY	KEGG_P53_SIGNALING_PATHWAY	0.078438951	0.41236713
MP:0000245	abnormal erythropoiesis	0.078687764	0.413250306
GO:0032844	regulation of homeostatic process	0.078760975	0.413280294
ENSG00000204217	BMPR2 subnetwork	0.078736802	0.413346939
ENSG00000125347	IRF1 subnetwork	0.078893059	0.413743883
MP:0008214	increased immature B cell number	0.079147498	0.415124338
GO:0052742	phosphatidylinositol kinase activity	0.079179565	0.415158924
ENSG00000010818	HIVEP2 subnetwork	0.0793209	0.415723014
MP:0001132	absent mature ovarian follicles	0.079435271	0.416266287
MP:0010869	decreased bone trabecula number	0.079686646	0.417127746
MP:0000066	osteoporosis	0.079661466	0.417216117
ENSG00000088356	PDRG1 subnetwork	0.079927501	0.418117121
GO:0032620	interleukin-17 production	0.080130662	0.418323864
ENSG00000118520	ARG1 subnetwork	0.080059425	0.418386835
ENSG00000128340	RAC2 subnetwork	0.080037527	0.418455285
GO:0032660	regulation of interleukin-17 production	0.080130662	0.418493707
MP:0003567	abnormal fetal cardiomyocyte proliferation	0.08012343	0.418643379
ENSG00000051382	PIK3CB subnetwork	0.080345248	0.419208925
ENSG00000167508	MVD subnetwork	0.080507727	0.419408428
GO:0001727	lipid kinase activity	0.080439384	0.419424169
ENSG00000117877	CD3EAP subnetwork	0.080561582	0.419433198
MP:0010209	abnormal circulating chemokine level	0.080529666	0.419441069
ENSG00000105963	ADAP1 subnetwork	0.080505529	0.419578435
GO:0004721	phosphoprotein phosphatase activity	0.080715536	0.419923139
GO:0042036	negative regulation of cytokine biosynthetic process	0.080753637	0.420056611
ENSG00000120158	RCL1 subnetwork	0.080712984	0.42009308
ENSG00000175866	BAIAP2 subnetwork	0.080821684	0.420129345
GO:0070646	protein modification by small protein removal	0.081220653	0.421391129
MP:0008279	arrest of spermiogenesis	0.081215586	0.421540944
ENSG00000125731	SH2D3A subnetwork	0.081073711	0.421555556
ENSG00000198802	ENSG00000198802 subnetwork	0.081123658	0.421607431
ENSG00000156299	TIAM1 subnetwork	0.081202403	0.421670702
GO:0061005	cell differentiation involved in kidney development	0.081195785	0.421800565
GO:0033002	muscle cell proliferation	0.081520915	0.422654048

GO:0090030	regulation of steroid hormone biosynthetic process	0.081448694	0.422712616
ENSG00000103194	USP10 subnetwork	0.0815053	0.42272361
GO:0051259	protein oligomerization	0.081570188	0.4227657
GO:0045429	positive regulation of nitric oxide biosynthetic process	0.081762974	0.423641851
ENSG00000188620	HMX3 subnetwork	0.081871236	0.423823884
ENSG00000150991	UBC subnetwork	0.081832465	0.42385358
ENSG00000172349	IL16 subnetwork	0.082041966	0.424517685
GO:0002687	positive regulation of leukocyte migration	0.082148825	0.425090398
ENSG00000100985	MMP9 subnetwork	0.082216006	0.425110397
ENSG00000115317	HTRA2 subnetwork	0.082210163	0.425180723
GO:0071560	cellular response to transforming growth factor beta stim	0.082296257	0.425290814
ENSG00000111816	FRK subnetwork	0.082279116	0.42538122
ENSG00000103423	DNAJA3 subnetwork	0.082622922	0.4258
MP:0002223	lymphoid hypoplasia	0.082601464	0.42585034
GO:0031641	regulation of myelination	0.082600052	0.426020817
ENSG00000085224	ATRX subnetwork	0.082784464	0.426067864
ENSG00000089094	KDM2B subnetwork	0.082766617	0.426138179
ENSG00000135372	NAT10 subnetwork	0.08249222	0.426142743
MP:0009791	increased susceptibility to viral infection induced morbid	0.08257849	0.426151382
GO:0045815	positive regulation of gene expression, epigenetic	0.082711659	0.4262495
GO:0043502	regulation of muscle adaptation	0.082569508	0.426262019
ENSG00000108826	MRPL27 subnetwork	0.082761818	0.426288454
REACTOME_NONSENSE_MEDIATE	REACTOME_NONSENSE_MEDIATED_DECAY_INDEPENDE	0.083006146	0.426314741
ENSG00000138031	ADCY3 subnetwork	0.082946486	0.426335726
ENSG00000169710	FASN subnetwork	0.082975653	0.426365086
ENSG00000196961	AP2A1 subnetwork	0.08256772	0.426432866
MP:0010792	abnormal stomach mucosa morphology	0.082760696	0.426438849
ENSG00000115677	HDLBP subnetwork	0.082896363	0.426476457
MP:0009789	decreased susceptibility to bacterial infection induced m	0.082925422	0.42648584
GO:0042523	positive regulation of tyrosine phosphorylation of Stat5 p	0.083137948	0.426691879
ENSG00000143771	CNIH4 subnetwork	0.083134717	0.426841896
GO:0009898	internal side of plasma membrane	0.083345211	0.427616395
ENSG00000180209	MYLPF subnetwork	0.083444483	0.427673956
ENSG00000124587	PEX6 subnetwork	0.083430522	0.42774463
ENSG00000104814	MAP4K1 subnetwork	0.083760641	0.42945151
ENSG00000162367	TAL1 subnetwork	0.084064633	0.430949543
ENSG00000058729	RIOK2 subnetwork	0.084243542	0.43112609
ENSG00000212645	ENSG00000212645 subnetwork	0.084173666	0.431183009
ENSG00000153317	ASAP1 subnetwork	0.084146487	0.431254964
ENSG00000111775	COX6A1 subnetwork	0.084233307	0.431257438
ENSG00000153914	SREK1 subnetwork	0.084215782	0.431369048
ENSG00000101213	PTK6 subnetwork	0.084341313	0.431609195
ENSG00000114062	UBE3A subnetwork	0.084543325	0.432158416
ENSG00000132394	EEFSEC subnetwork	0.084530971	0.432270206
MP:0005165	increased susceptibility to injury	0.084722435	0.432305259
MP:0002007	increased cellular sensitivity to gamma-irradiation	0.084624225	0.43236342
MP:0000250	abnormal vasoconstriction	0.084659141	0.4323704
MP:0011086	partial postnatal lethality	0.084720122	0.432476266
ENSG00000033327	GAB2 subnetwork	0.084904866	0.432589814
GO:0010906	regulation of glucose metabolic process	0.084890553	0.43264218
ENSG00000139132	FGD4 subnetwork	0.084838239	0.432687747
MP:0000639	abnormal adrenal gland morphology	0.084873718	0.432734097
ENSG00000175792	RUVBL1 subnetwork	0.085025552	0.432951855
ENSG00000186868	MAPT subnetwork	0.08512083	0.433293886

ENSG00000196459	TRAPPC2 subnetwork	0.085251032	0.433884949
ENSG00000148660	CAMK2G subnetwork	0.085277241	0.433910989
ENSG00000111653	ING4 subnetwork	0.085303232	0.433917323
ENSG00000165516	KLHDC2 subnetwork	0.08522295	0.434010252
ENSG00000213764	ENSG00000213764 subnetwork	0.085251032	0.434055972
ENSG00000174307	PHLDA3 subnetwork	0.085417364	0.434336875
ENSG00000082014	SMARCD3 subnetwork	0.085572504	0.435031471
ENSG00000132142	ACACA subnetwork	0.085597188	0.435076681
GO:0009314	response to radiation	0.085861308	0.435714286
MP:0001192	scaly skin	0.085727962	0.435731132
ENSG00000140368	PSTPIP1 subnetwork	0.085846716	0.435747939
ENSG00000081248	CACNA1S subnetwork	0.085810386	0.435776031
ENSG00000213639	PPP1CB subnetwork	0.08584143	0.43589945
ENSG00000007816	ENSG00000007816 subnetwork	0.085947624	0.435955277
REACTOME_FORMATION_OF_THI	REACTOME_FORMATION_OF_THE_TERNARY_COMPLEX	0.086126866	0.436153545
MP:0001191	abnormal skin condition	0.086123271	0.436285266
ENSG00000110651	CD81 subnetwork	0.086122936	0.436456292
GO:0002825	regulation of T-helper 1 type immune response	0.086106296	0.436588235
ENSG00000196681	ENSG00000196681 subnetwork	0.08630937	0.436664059
ENSG00000176534	ENSG00000176534 subnetwork	0.08630937	0.436834898
ENSG00000124208	TMEM189-UBE2V1 subnetwork	0.086386956	0.436845192
ENSG00000198637	ENSG00000198637 subnetwork	0.08630937	0.437005871
GO:0042326	negative regulation of phosphorylation	0.086476491	0.437045721
ENSG00000007866	TEAD3 subnetwork	0.086292066	0.437059514
MP:0010279	increased gastrointestinal tumor incidence	0.086556083	0.437265625
MP:0000259	abnormal vascular development	0.08671348	0.437836783
ENSG00000198918	RPL39 subnetwork	0.086911865	0.438089669
GO:0033598	mammary gland epithelial cell proliferation	0.086810044	0.438095238
GO:0032103	positive regulation of response to external stimulus	0.086823845	0.438099883
MP:0001544	abnormal cardiovascular system physiology	0.086910767	0.43824103
ENSG00000135655	USP15 subnetwork	0.087151849	0.439072848
ENSG00000137497	NUMA1 subnetwork	0.087132659	0.439224474
GO:0043967	histone H4 acetylation	0.087239927	0.439661215
ENSG00000114767	RRP9 subnetwork	0.087361393	0.44
ENSG00000132361	KIAA0664 subnetwork	0.087391614	0.440062233
MP:0000379	decreased hair follicle number	0.087421178	0.440124417
ENSG00000132005	RFX1 subnetwork	0.087360352	0.440171273
ENSG00000196504	PRPF40A subnetwork	0.087525906	0.440271845
GO:0060749	mammary gland alveolus development	0.087523028	0.440423465
GO:0061377	mammary gland lobule development	0.087523028	0.440594637
GO:0032273	positive regulation of protein polymerization	0.087793014	0.441559953
ENSG00000165688	PMPCA subnetwork	0.087776125	0.441634317
ENSG00000178409	BEND3 subnetwork	0.087857814	0.441679597
MP:0003667	hemangiosarcoma	0.08820116	0.442987214
MP:0003427	parakeratosis	0.088131347	0.443039938
MP:0001545	abnormal hematopoietic system physiology	0.088184014	0.443100775
ENSG00000167004	PDIA3 subnetwork	0.088498918	0.444616576
GO:0006809	nitric oxide biosynthetic process	0.088679142	0.445394737
ENSG00000151239	TWF1 subnetwork	0.088788532	0.445419405
GO:0003706	ligand-regulated transcription factor activity	0.088754929	0.445456303
ENSG00000106070	GRB10 subnetwork	0.08866339	0.445528455
GO:0030521	androgen receptor signaling pathway	0.088753501	0.445628627
ENSG00000102572	STK24 subnetwork	0.089057353	0.446101891
ENSG00000139144	PIK3C2G subnetwork	0.088941822	0.446116692

ENSG00000172340	SUCLG2 subnetwork	0.088973885	0.446137505
GO:0008080	N-acetyltransferase activity	0.089043725	0.446235521
GO:0004114	3',5'-cyclic-nucleotide phosphodiesterase activity	0.0892536	0.447164352
ENSG00000173511	VEGFB subnetwork	0.089511475	0.448592907
ENSG00000114166	KAT2B subnetwork	0.089504137	0.448688777
GO:0032635	interleukin-6 production	0.089615529	0.448709553
ENSG00000130592	LSP1 subnetwork	0.089585496	0.448786127
MP:0008705	increased interleukin-6 secretion	0.089731381	0.449075857
GO:0030335	positive regulation of cell migration	0.089816187	0.449326405
GO:0003724	RNA helicase activity	0.089856774	0.449326664
MP:0004505	decreased renal glomerulus number	0.089980202	0.449846213
ENSG00000105610	KLF1 subnetwork	0.089977227	0.450019231
ENSG00000168036	CTNNB1 subnetwork	0.090088866	0.450230592
GO:0005099	Ras GTPase activator activity	0.0901364	0.450403381
ENSG00000103319	EEF2K subnetwork	0.090212683	0.450556622
GO:0010575	positive regulation vascular endothelial growth factor pr	0.090252693	0.450613968
ENSG00000129521	EGLN3 subnetwork	0.090210658	0.450710445
MP:0004883	abnormal vascular wound healing	0.090319716	0.450786344
GO:0045787	positive regulation of cell cycle	0.090395996	0.450977386
ENSG00000140988	RPS2 subnetwork	0.090373037	0.451016104
GO:0004198	calcium-dependent cysteine-type endopeptidase activity	0.090445509	0.451168582
GO:0004112	cyclic-nucleotide phosphodiesterase activity	0.090641304	0.451991574
ENSG00000073614	KDM5A subnetwork	0.090751769	0.452431087
ENSG00000214026	MRPL23 subnetwork	0.09082326	0.452698048
GO:0016790	thiolester hydrolase activity	0.090902676	0.452792655
REACTOME_GTP_HYDROLYSIS_AND_JOINING_OF_THE_	REACTOME_GTP_HYDROLYSIS_AND_JOINING_OF_THE_	0.0909982	0.452924312
GO:0009925	basal plasma membrane	0.090995261	0.453078394
GO:0001067	regulatory region nucleic acid binding	0.091090297	0.453093965
GO:0000975	regulatory region DNA binding	0.091090297	0.4532671
ENSG00000145216	FIP1L1 subnetwork	0.091207027	0.453398244
REACTOME_INTERFERON_SIGNALING	REACTOME_INTERFERON_SIGNALING	0.091391515	0.453831491
ENSG00000111276	CDKN1B subnetwork	0.091372978	0.453852021
ENSG00000123836	PFKFB2 subnetwork	0.091360492	0.453910721
GO:0051240	positive regulation of multicellular organismal process	0.091357978	0.454064885
ENSG00000158711	ELK4 subnetwork	0.091703614	0.455449695
ENSG00000100949	RABGGTA subnetwork	0.092082502	0.456811263
GO:0016407	acetyltransferase activity	0.092165183	0.456882129
GO:0048771	tissue remodeling	0.092080068	0.456966121
ENSG00000204301	NOTCH4 subnetwork	0.092052598	0.457025895
ENSG00000173674	EIF1AX subnetwork	0.092161144	0.457036896
GO:0070231	T cell apoptotic process	0.092033027	0.457047619
GO:0019210	kinase inhibitor activity	0.092471681	0.457164519
GO:0004690	cyclic nucleotide-dependent protein kinase activity	0.092436521	0.457205157
GO:0003725	double-stranded RNA binding	0.092411918	0.457286528
ENSG00000137992	DBT subnetwork	0.092430408	0.457340668
GO:0048732	gland development	0.092405389	0.457384207
ENSG00000196084	ENSG00000196084 subnetwork	0.09231008	0.457449639
ENSG00000143947	RPS27A subnetwork	0.092345161	0.457465805
GO:0004221	ubiquitin thiolesterase activity	0.092393895	0.457538929
REACTOME_PPARA_ACTIVATES_GENE_EXPRESSION	REACTOME_PPARA_ACTIVATES_GENE_EXPRESSION	0.092777742	0.458582797
ENSG00000143375	CGN subnetwork	0.09292121	0.458996212
ENSG00000141141	DDX52 subnetwork	0.093158544	0.459863688
ENSG00000123405	NFE2 subnetwork	0.09319308	0.459897805
ENSG00000141076	CIRH1A subnetwork	0.093299078	0.460098336

ENSG00000177200	CHD9 subnetwork	0.093259151	0.460121075
GO:0018393	internal peptidyl-lysine acetylation	0.093467535	0.460808768
REACTOME_MRNA_DECAY_BY_5	REACTOME_MRNA_DECAY_BY_5_TO_3_EXORIBONUCLE	0.093448201	0.460964083
ENSG00000131652	THOC6 subnetwork	0.093566802	0.461291541
REACTOME_IRAK2_MEDIATED_A	REACTOME_IRAK2_MEDIATED_ACTIVATION_OF_TAK1_	0.093524687	0.461314696
MP:0003057	abnormal epicardium morphology	0.093837938	0.462627407
ENSG00000136628	EPRS subnetwork	0.094055706	0.463428895
KEGG_LEUKOCYTE_TRANSENDOT	KEGG_LEUKOCYTE_TRANSENDOTHELIAL_MIGRATION	0.094051903	0.46354717
ENSG00000039987	BEST2 subnetwork	0.09447006	0.465346908
GO:0043548	phosphatidylinositol 3-kinase binding	0.09451731	0.465454203
ENSG00000165197	FIGF subnetwork	0.094585615	0.465617935
MP:0008396	abnormal osteoclast differentiation	0.094787338	0.466208584
MP:0001541	abnormal osteoclast physiology	0.094763092	0.466271186
ENSG00000115484	CCT4 subnetwork	0.094849553	0.466371848
GO:0008625	induction of apoptosis via death domain receptors	0.095112209	0.467318541
MP:0000952	abnormal CNS glial cell morphology	0.095080549	0.467419112
MP:0001125	abnormal oocyte morphology	0.095226737	0.46768797
GO:0048661	positive regulation of smooth muscle cell proliferation	0.095332008	0.467731029
GO:0005996	monosaccharide metabolic process	0.09526507	0.467737693
ENSG00000186230	ZNF749 subnetwork	0.095402776	0.467949681
ENSG00000186654	PRR5 subnetwork	0.09550079	0.468355856
GO:0034754	cellular hormone metabolic process	0.095745767	0.468909295
ENSG00000143669	LYST subnetwork	0.095699419	0.46896099
ENSG00000174775	HRAS subnetwork	0.095735065	0.469010124
MP:0001201	translucent skin	0.095685603	0.469118199
ENSG00000186115	CYP4F2 subnetwork	0.095935616	0.469670288
ENSG00000178105	DDX10 subnetwork	0.096015884	0.470037453
ENSG00000100292	HMOX1 subnetwork	0.096331862	0.471201347
ENSG00000109339	MAPK10 subnetwork	0.096286041	0.471246724
GO:0070742	C2H2 zinc finger domain binding	0.096557499	0.472446689
ENSG00000137757	CASP5 subnetwork	0.096648699	0.472812266
ENSG00000087157	PGS1 subnetwork	0.096705654	0.473028037
GO:0045736	negative regulation of cyclin-dependent protein kinase a	0.097012457	0.473192996
KEGG_TOLL_LIKE_RECEPTOR_SIGI	KEGG_TOLL_LIKE_RECEPTOR_SIGNALING_PATHWAY	0.096789547	0.473206278
ENSG00000102606	ARHGEF7 subnetwork	0.096976017	0.473276183
ENSG00000152944	MED21 subnetwork	0.096953229	0.473442745
ENSG00000109971	HSPA8 subnetwork	0.096972796	0.473452647
GO:0042169	SH2 domain binding	0.096952035	0.473619403
ENSG00000101361	NOP56 subnetwork	0.096929571	0.473646883
ENSG00000175826	CTDNBP1 subnetwork	0.096890184	0.473683227
MP:0001929	abnormal gametogenesis	0.096923127	0.473786408
ENSG00000161204	ABCF3 subnetwork	0.097402578	0.475018615
GO:0048545	response to steroid hormone stimulus	0.097379105	0.475046555
GO:0020027	hemoglobin metabolic process	0.097640553	0.476311872
MP:0008410	increased cellular sensitivity to ultraviolet irradiation	0.097719977	0.476525298
KEGG_CYTOSOLIC_DNA_SENSING	KEGG_CYTOSOLIC_DNA_SENSING_PATHWAY	0.097807586	0.476701376
ENSG00000111245	MYL2 subnetwork	0.097838051	0.476728625
ENSG00000115977	AAK1 subnetwork	0.09788551	0.476923077
ENSG00000197157	SND1 subnetwork	0.097973356	0.477181582
MP:0004988	increased osteoblast cell number	0.097947583	0.477191679
GO:0006401	RNA catabolic process	0.098092887	0.477598367
ENSG00000175220	ARHGAP1 subnetwork	0.098211471	0.477940631
ENSG00000160613	PCSK7 subnetwork	0.098247724	0.478041543
ENSG00000129559	NEDD8 subnetwork	0.098342962	0.47836485

KEGG_RNA_DEGRADATION	KEGG_RNA_DEGRADATION	0.098459512	0.478817643
ENSG00000162409	PRKAA2 subnetwork	0.098573687	0.479277778
ENSG00000105974	CAV1 subnetwork	0.098572421	0.479455354
ENSG00000116001	TIA1 subnetwork	0.098711719	0.479607698
GO:0002367	cytokine production involved in immune response	0.098692227	0.479674195
GO:0051050	positive regulation of transport	0.098816377	0.479874214
ENSG00000169032	MAP2K1 subnetwork	0.099133982	0.481067603
ENSG00000174292	TNK1 subnetwork	0.099099301	0.481146026
MP:0004502	decreased incidence of chemically-induced tumors	0.099126088	0.481152993
MP:0001240	abnormal epidermis stratum corneum morphology	0.09907333	0.481157544
ENSG00000130826	DKC1 subnetwork	0.099221616	0.481462334
GO:0007595	lactation	0.099303572	0.481875231
MP:0008873	increased physiological sensitivity to xenobiotic	0.099519941	0.482436417
GO:0006109	regulation of carbohydrate metabolic process	0.099507452	0.482503687
ENSG00000147065	MSN subnetwork	0.099450215	0.482509225
ENSG00000092529	CAPN3 subnetwork	0.099500864	0.482663224
GO:0009306	protein secretion	0.099734151	0.483548268
ENSG00000127334	DYRK2 subnetwork	0.099806444	0.483793738
ENSG00000073050	XRCC1 subnetwork	0.09995673	0.484278351
REACTOME_REGULATION_OF_KIT	REACTOME_REGULATION_OF_KIT_SIGNALING	0.100047885	0.484578579
ENSG00000185619	PCGF3 subnetwork	0.100159091	0.484797794
GO:0030331	estrogen receptor binding	0.100115393	0.484841795
ENSG00000079102	RUNX1T1 subnetwork	0.100132495	0.48484737
GO:0043254	regulation of protein complex assembly	0.100373577	0.485176341
ENSG00000008838	MED24 subnetwork	0.100313845	0.485244395
GO:0060760	positive regulation of response to cytokine stimulus	0.10044007	0.485347044
ENSG00000115268	RPS15 subnetwork	0.100627627	0.485625229
ENSG00000168118	RAB4A subnetwork	0.100594297	0.485669725
KEGG_INOSITOL_PHOSPHATE_ME	KEGG_INOSITOL_PHOSPHATE_METABOLISM	0.100614772	0.485674982
ENSG00000104131	EIF3J subnetwork	0.100589658	0.485829662
MP:0005578	teratozoospermia	0.100894406	0.48686332
GO:2000147	positive regulation of cell motility	0.10089139	0.48702346
GO:0010494	cytoplasmic stress granule	0.101192354	0.488103953
ENSG00000149311	ATM subnetwork	0.101141969	0.488186813
GO:0002224	toll-like receptor signaling pathway	0.101187157	0.488264372
ENSG00000168264	IRF2BP2 subnetwork	0.101614964	0.490193926
ENSG00000080819	CPOX subnetwork	0.101662195	0.490288954
ENSG00000136573	BLK subnetwork	0.101723295	0.490420475
MP:0005630	increased lung weight	0.101852932	0.490844298
ENSG00000163510	CWC22 subnetwork	0.102069256	0.491672754
ENSG00000099389	ENSG00000099389 subnetwork	0.102055409	0.491761052
GO:0005605	basal lamina	0.10230425	0.492387733
ENSG00000163737	PF4 subnetwork	0.102380566	0.492755474
GO:0090023	positive regulation of neutrophil chemotaxis	0.102557673	0.493305363
ENSG00000080839	RBL1 subnetwork	0.102632276	0.493563093
ENSG00000117751	PPP1R8 subnetwork	0.102867117	0.494153005
ENSG00000171365	CLCN5 subnetwork	0.102795999	0.49416697
GO:0002218	activation of innate immune response	0.102914734	0.494227968
MP:0001176	abnormal lung development	0.102858686	0.494314869
ENSG00000173267	SNCG subnetwork	0.103046894	0.494776119
ENSG00000105063	PPP6R1 subnetwork	0.103139274	0.495105531
GO:0016514	SWI/SNF complex	0.103255977	0.495743907
ENSG00000131467	PSME3 subnetwork	0.103413941	0.496418182
ENSG00000165288	BRWD3 subnetwork	0.103547646	0.497073791

GO:0031072	heat shock protein binding	0.103733013	0.497693425
GO:0002237	response to molecule of bacterial origin	0.103694467	0.497747093
GO:0010563	negative regulation of phosphorus metabolic process	0.104048422	0.497971014
ENSG00000151320	AKAP6 subnetwork	0.104253126	0.498047722
ENSG00000140319	SRP14 subnetwork	0.104173286	0.498099891
GO:0042345	regulation of NF-kappaB import into nucleus	0.10424595	0.498119349
ENSG00000196656	ENSG00000196656 subnetwork	0.103882256	0.498130672
GO:0045936	negative regulation of phosphate metabolic process	0.104048422	0.498151504
ENSG00000109458	GAB1 subnetwork	0.10394018	0.498185776
GO:0070461	SAGA-type complex	0.104132998	0.498207171
ENSG00000163464	CXCR1 subnetwork	0.104157954	0.498225923
ENSG00000173530	TNFRSF10D subnetwork	0.104319077	0.498229129
GO:0042348	NF-kappaB import into nucleus	0.10424595	0.498299566
ENSG00000197728	RPS26 subnetwork	0.103882256	0.498311547
ENSG00000089220	PEBP1 subnetwork	0.104038714	0.498332125
MP:0003717	pallor	0.104016445	0.498404062
ENSG00000071242	RPS6KA2 subnetwork	0.104448081	0.498428468
ENSG00000116473	RAP1A subnetwork	0.104655362	0.498503426
ENSG00000115548	KDM3A subnetwork	0.104514511	0.498555435
GO:0051651	maintenance of location in cell	0.104569507	0.498610108
GO:0034103	regulation of tissue remodeling	0.104648647	0.498665224
ENSG00000071082	RPL31 subnetwork	0.104646265	0.498845182
ENSG00000137309	HMGA1 subnetwork	0.104834897	0.499099099
GO:0030316	osteoclast differentiation	0.104786067	0.499134823
GO:0019835	cytolysis	0.104920948	0.499207493
ENSG00000179958	DCTPP1 subnetwork	0.105167756	0.500234066
GO:0030518	intracellular steroid hormone receptor signaling pathway	0.105402023	0.501547876
MP:0003447	decreased tumor growth/size	0.105447307	0.501673264
ENSG00000100749	VRK1 subnetwork	0.105519775	0.501852518
GO:0008301	DNA binding, bending	0.105664479	0.502409205
ENSG00000184922	FMNL1 subnetwork	0.10615637	0.504455623
GO:0030852	regulation of granulocyte differentiation	0.106154287	0.504618979
ENSG00000089154	GCN1L1 subnetwork	0.106237093	0.504741379
GO:2000107	negative regulation of leukocyte apoptotic process	0.106414599	0.505691203
GO:0005024	transforming growth factor beta-activated receptor activ	0.1068042	0.507663317
GO:0030669	clathrin-coated endocytic vesicle membrane	0.107028972	0.508736993
GO:0050681	androgen receptor binding	0.107166529	0.50945122
GO:0042274	ribosomal small subunit biogenesis	0.107286637	0.50989602
REACTOME_FATTY_ACID_TRIACYLGLYCEROL_AND_KETC	REACTOME_FATTY_ACID_TRIACYLGLYCEROL_AND_KETC	0.107327105	0.509942673
GO:0006984	ER-nucleus signaling pathway	0.107374522	0.509953455
ENSG00000110958	PTGES3 subnetwork	0.107450873	0.509982111
ENSG00000064393	HIPK2 subnetwork	0.107318285	0.510017921
MP:0005668	decreased circulating leptin level	0.10736753	0.510100287
MP:0004978	decreased B-1 B cell number	0.107443023	0.510146743
ENSG00000117318	ID3 subnetwork	0.107644988	0.510779407
ENSG00000186716	BCR subnetwork	0.107623683	0.510783262
ENSG00000129152	MYOD1 subnetwork	0.107762976	0.511079342
ENSG00000129824	RPS4Y1 subnetwork	0.107888977	0.511117059
ENSG00000140682	TGFB11 subnetwork	0.107876163	0.511228133
ENSG00000136045	PWP1 subnetwork	0.107844778	0.511232143
MP:0003215	renal interstitial fibrosis	0.107841521	0.511414791
ENSG00000206506	HLA-G subnetwork	0.108069837	0.51152476
MP:0005030	absent amnion	0.108132784	0.511534354
ENSG00000136021	SCYL2 subnetwork	0.108179287	0.511654804

ENSG00000112651	MRPL2 subnetwork	0.108130256	0.511680912
ENSG00000105953	OGDH subnetwork	0.107993813	0.511701748
ENSG00000206443	ENSG00000206443 subnetwork	0.108069837	0.511707056
ENSG00000180530	NRIP1 subnetwork	0.10802354	0.511733238
ENSG00000204632	HLA-G subnetwork	0.108069837	0.511889483
ENSG00000119285	HEATR1 subnetwork	0.108288038	0.512024191
ENSG00000152484	USP12 subnetwork	0.108395489	0.51230441
ENSG00000131747	TOP2A subnetwork	0.108562799	0.512753108
MP:0008866	chromosomal instability	0.108522457	0.512904373
KEGG_TYPE_II_DIABETES_MELLITUS	KEGG_TYPE_II_DIABETES_MELLITUS	0.108554457	0.512935323
ENSG00000054611	TBC1D22A subnetwork	0.108693982	0.513103693
REACTOME_MAPK_TARGETS_NUCLEAR_EVENTS_MEDIA	REACTOME_MAPK_TARGETS_NUCLEAR_EVENTS_MEDIA	0.108873308	0.513809017
MP:0002652	thin myocardium	0.109103388	0.51469127
ENSG00000073282	TP63 subnetwork	0.10941974	0.515208924
ENSG00000102755	FLT1 subnetwork	0.109496482	0.515256637
ENSG00000147443	DOK2 subnetwork	0.109343933	0.515349167
GO:0090079	translation regulator activity, nucleic acid binding	0.109276539	0.515360057
ENSG00000137486	ARRB1 subnetwork	0.10941004	0.515373716
GO:0051087	chaperone binding	0.109387631	0.515379164
MP:0001780	decreased brown adipose tissue amount	0.109322046	0.515460993
ENSG00000145781	COMMD10 subnetwork	0.109557016	0.515516631
ENSG00000122778	KIAA1549 subnetwork	0.109708971	0.515823904
MP:0004181	abnormal carotid artery morphology	0.109793695	0.515995051
ENSG00000120129	DUSP1 subnetwork	0.109708243	0.516006367
MP:0001263	weight loss	0.109924508	0.51608404
GO:0031401	positive regulation of protein modification process	0.109900039	0.516142706
ENSG00000108587	GOSR1 subnetwork	0.109857703	0.516166078
GO:0032393	MHC class I receptor activity	0.109997092	0.516166608
ENSG00000164078	MST1R subnetwork	0.110101041	0.516707833
ENSG00000184886	PIGW subnetwork	0.11018501	0.517054674
MP:0004188	delayed embryo turning	0.110227254	0.517136812
REACTOME_NITRIC_OXIDE_STIMULATES_GUANYLATE_CYCLASE_ACTIVITY	REACTOME_NITRIC_OXIDE_STIMULATES_GUANYLATE_CYCLASE_ACTIVITY	0.110563687	0.518380282
ENSG00000101558	VAPA subnetwork	0.110545797	0.518492427
GO:0042162	telomeric DNA binding	0.110538068	0.518604651
ENSG00000139835	G RTP1 subnetwork	0.11051672	0.518646458
GO:0071495	cellular response to endogenous stimulus	0.110684939	0.518831397
GO:0008135	translation factor activity, nucleic acid binding	0.110725424	0.518947924
ENSG00000163346	PBXIP1 subnetwork	0.111339253	0.520814321
MP:0002947	hemangioma	0.111312968	0.520839185
ENSG00000155660	PDIA4 subnetwork	0.111403537	0.520964912
ENSG00000156261	CCT8 subnetwork	0.111307886	0.521004566
GO:0005858	axonemal dynein complex	0.11148272	0.521020337
ENSG00000138029	HADHB subnetwork	0.111472334	0.521062785
ENSG00000165271	NOL6 subnetwork	0.111304546	0.521187632
ENSG00000122140	MRPS2 subnetwork	0.11129414	0.521265378
ENSG00000187109	NAP1L1 subnetwork	0.111211702	0.521280338
GO:0019319	hexose biosynthetic process	0.111269086	0.521360759
GO:0031958	corticosteroid receptor signaling pathway	0.111742172	0.522169646
ENSG00000092067	CEBPE subnetwork	0.111825024	0.522372109
ENSG00000175416	CLTB subnetwork	0.111938451	0.522994746
ENSG00000100206	DMC1 subnetwork	0.112203261	0.523444056
REACTOME_ACTIVATION_OF_THE_AP_1_FAMILY_OF_TRANSCRIPTION_FACTORS	REACTOME_ACTIVATION_OF_THE_AP_1_FAMILY_OF_TRANSCRIPTION_FACTORS	0.112064238	0.523476891
ENSG00000108107	RPL28 subnetwork	0.112186845	0.523522211
ENSG00000006125	AP2B1 subnetwork	0.112151872	0.523547936

MP:0002410	decreased susceptibility to viral infection	0.112248268	0.523610626
ENSG00000161618	ALDH16A1 subnetwork	0.11214366	0.523678684
GO:0001913	T cell mediated cytotoxicity	0.112326536	0.52382949
ENSG00000070882	OSBPL3 subnetwork	0.112359148	0.523873559
ENSG00000105849	TWISTNB subnetwork	0.112667327	0.524642483
MP:0011109	partial lethality throughout fetal growth and development	0.112533229	0.524650838
ENSG00000112078	KCTD20 subnetwork	0.112648526	0.524773203
ENSG00000157404	KIT subnetwork	0.112618062	0.524816754
ENSG00000134853	PDGFRA subnetwork	0.112755223	0.524982566
MP:0008395	abnormal osteoblast differentiation	0.113003882	0.525200139
KEGG_GNRH_SIGNALING_PATHWAY	KEGG_GNRH_SIGNALING_PATHWAY	0.112974513	0.525278552
GO:0035004	phosphatidylinositol 3-kinase activity	0.112961365	0.52539185
ENSG00000119699	TGFB3 subnetwork	0.112901296	0.525566399
GO:0016303	1-phosphatidylinositol-3-kinase activity	0.112961365	0.525574913
ENSG00000114942	EEF1B2 subnetwork	0.113129638	0.525765484
MP:0008663	increased interleukin-12 secretion	0.11326754	0.526313043
GO:0046982	protein heterodimerization activity	0.113506215	0.5274244
GO:0045597	positive regulation of cell differentiation	0.113471306	0.527468707
ENSG00000196975	ANXA4 subnetwork	0.113681953	0.528204238
GO:0050755	chemokine metabolic process	0.113674289	0.52833565
MP:0011101	partial prenatal lethality	0.113764479	0.528358209
ENSG00000013455	ENSG00000013455 subnetwork	0.113745388	0.5284375
MP:0002664	decreased circulating adrenocorticotropin level	0.114037958	0.529528105
MP:0003227	abnormal vascular branching morphogenesis	0.114205547	0.53012487
ENSG00000118094	TREH subnetwork	0.11424868	0.530166436
ENSG00000148408	CACNA1B subnetwork	0.114404993	0.530561331
GO:0050854	regulation of antigen receptor-mediated signaling pathway	0.114379445	0.53067591
MP:0003562	abnormal pancreatic beta cell physiology	0.114658268	0.531446867
ENSG00000137054	POLR1E subnetwork	0.114619663	0.531475069
ENSG00000165525	NEMF subnetwork	0.114735387	0.531476998
ENSG00000166710	B2M subnetwork	0.114695654	0.531522491
ENSG00000137818	RPLP1 subnetwork	0.114582801	0.531537929
ENSG00000113319	RASGRF2 subnetwork	0.11492598	0.532129278
MP:0002182	abnormal astrocyte morphology	0.114913673	0.532192254
GO:0050431	transforming growth factor beta binding	0.115084911	0.532326545
ENSG00000043093	DCUN1D1 subnetwork	0.115034842	0.53238342
ENSG00000163682	RPL9 subnetwork	0.115218346	0.532385384
GO:0034341	response to interferon-gamma	0.115121147	0.532401656
ENSG00000118515	SGK1 subnetwork	0.115016592	0.532463718
GO:0030595	leukocyte chemotaxis	0.115080576	0.532493094
GO:0016573	histone acetylation	0.11537	0.53255854
GO:0043966	histone H3 acetylation	0.115291485	0.532563749
ENSG00000182754	ENSG00000182754 subnetwork	0.115218346	0.532568966
ENSG00000134215	VAV3 subnetwork	0.115316384	0.532604203
ENSG00000167721	TSR1 subnetwork	0.115205317	0.532666437
ENSG00000151422	FER subnetwork	0.115530938	0.532782938
MP:0000292	distended pericardium	0.115523613	0.532931865
GO:0042362	fat-soluble vitamin biosynthetic process	0.115520399	0.533063683
ENSG00000140326	CDAN1 subnetwork	0.115826118	0.534009629
ENSG00000154001	PPP2R5E subnetwork	0.116020322	0.534232223
GO:0008083	growth factor activity	0.115941887	0.53432451
MP:0008898	abnormal acrosome morphology	0.116006008	0.534347079
MP:0003719	abnormal pericyte morphology	0.11615064	0.534769918
ENSG00000150990	DHX37 subnetwork	0.116186503	0.534809475

ENSG00000171858	RPS21 subnetwork	0.116434942	0.535574614
GO:0018394	peptidyl-lysine acetylation	0.116418795	0.535741249
GO:0032007	negative regulation of TOR signaling cascade	0.116575362	0.536042524
GO:0002758	innate immune response-activating signal transduction	0.116663128	0.536544395
GO:0048145	regulation of fibroblast proliferation	0.116864617	0.536888052
GO:0046688	response to copper ion	0.116840312	0.536952055
ENSG00000176165	FOXP1 subnetwork	0.11683838	0.537101747
GO:0032722	positive regulation of chemokine production	0.116831456	0.537268677
GO:0070741	response to interleukin-6	0.117097404	0.537786521
ENSG00000118971	CCND2 subnetwork	0.117157094	0.537927497
GO:0000784	nuclear chromosome, telomeric region	0.117082806	0.537953457
GO:0032469	endoplasmic reticulum calcium ion homeostasis	0.117382723	0.538957265
ENSG00000055044	NOP58 subnetwork	0.117760464	0.540533151
ENSG00000111737	RAB35 subnetwork	0.117951474	0.540719891
KEGG_THYROID_CANCER	KEGG_THYROID_CANCER	0.117989959	0.540757162
ENSG00000038427	VCAN subnetwork	0.117834378	0.540843867
REACTOME_L13A:MEDIATED_TRANSLATIONAL_SILENCING	REACTOME_L13A:MEDIATED_TRANSLATIONAL_SILENCING	0.117941606	0.540887372
REACTOME_3_UTR:MEDIATED_TRANSLATIONAL_REGULATION	REACTOME_3_UTR:MEDIATED_TRANSLATIONAL_REGULATION	0.117941606	0.541072038
ENSG00000057608	GDI2 subnetwork	0.117937809	0.541205601
ENSG00000115661	STK16 subnetwork	0.118312084	0.541802999
ENSG00000173867	ENSG00000173867 subnetwork	0.118342481	0.541805792
MP:0008944	decreased sensitivity to induced cell death	0.118309116	0.541987726
ENSG00000114857	NKTR subnetwork	0.118433459	0.542012943
MP:0000270	abnormal heart tube morphology	0.118494343	0.542100783
ENSG00000101343	CRNKL1 subnetwork	0.118567426	0.542256637
ENSG00000163453	IGFBP7 subnetwork	0.118636296	0.54244641
ENSG00000069956	MAPK6 subnetwork	0.11871027	0.54255102
ENSG00000158769	F11R subnetwork	0.118905492	0.543471608
ENSG00000146007	ZMAT2 subnetwork	0.119019619	0.543796737
ENSG00000157326	DHRS4 subnetwork	0.119125729	0.543887946
ENSG00000132842	AP3B1 subnetwork	0.119101979	0.543953804
ENSG00000107560	RAB11FIP2 subnetwork	0.119081589	0.544053687
GO:0032947	protein complex scaffold	0.119349864	0.544184469
REACTOME_SIGNALING_BY_CONSTITUTIVELY_ACTIVE_EFFECTORS	REACTOME_SIGNALING_BY_CONSTITUTIVELY_ACTIVE_EFFECTORS	0.119348784	0.544369064
ENSG00000189037	DUSP21 subnetwork	0.119284033	0.544467074
GO:0006278	RNA-dependent DNA replication	0.1193452	0.544519851
GO:0042033	chemokine biosynthetic process	0.119559327	0.545067797
ENSG00000157514	TSC22D3 subnetwork	0.11960862	0.545205015
GO:0006310	DNA recombination	0.119658132	0.545342141
ENSG00000104946	TBC1D17 subnetwork	0.11971658	0.545411446
ENSG00000196235	SUPT5H subnetwork	0.119760771	0.545599188
KEGG_EPITHELIAL_CELL_SIGNALING_IN_HELICOBACTER	KEGG_EPITHELIAL_CELL_SIGNALING_IN_HELICOBACTER	0.11992987	0.546226734
MP:0005601	increased angiogenesis	0.120028045	0.546414073
GO:0000184	nuclear-transcribed mRNA catabolic process, nonsense-mediated decay	0.120269293	0.547075727
MP:0008808	decreased spleen iron level	0.120235967	0.547091647
ENSG00000145348	TBCK subnetwork	0.120392801	0.547112462
ENSG00000126458	RRAS subnetwork	0.12033963	0.547194998
ENSG00000110768	GTF2H1 subnetwork	0.120367892	0.547195946
ENSG00000106245	BUD31 subnetwork	0.120836604	0.549172856
ENSG00000113758	DBN1 subnetwork	0.12091126	0.549308134
MP:0010760	abnormal macrophage chemotaxis	0.121000546	0.549510796
GO:0045120	pronucleus	0.121137839	0.549831423
ENSG00000111348	ARHGDI1 subnetwork	0.121129179	0.549966273
ENSG00000129315	CCNT1 subnetwork	0.121181761	0.550016852

GO:0060205	cytoplasmic membrane-bounded vesicle lumen	0.121413072	0.550909704
MP:0010264	increased hepatoma incidence	0.121484698	0.551111485
MP:0008719	impaired neutrophil recruitment	0.121603768	0.551363177
ENSG00000159217	IGF2BP1 subnetwork	0.121580726	0.551414141
MP:0011092	complete embryonic lethality	0.121925527	0.552674966
ENSG00000165416	SUGT1 subnetwork	0.122181181	0.553985873
MP:0000606	decreased hepatocyte number	0.12221903	0.554102219
ENSG00000166197	NOLC1 subnetwork	0.122388683	0.554771505
ENSG00000108469	RECQL5 subnetwork	0.122523953	0.554885829
KEGG_FC_GAMMA_R_MEDIATED	KEGG_FC_GAMMA_R_MEDIATED_PHAGOCYTOSIS	0.122384731	0.554957983
ENSG00000007392	LUC7L subnetwork	0.122517826	0.555055425
ENSG00000109929	SC5DL subnetwork	0.122672027	0.555421282
GO:0010675	regulation of cellular carbohydrate metabolic process	0.122735326	0.555637584
ENSG00000161217	PCYT1A subnetwork	0.122874523	0.556222744
GO:0042976	activation of Janus kinase activity	0.123028403	0.556247906
GO:0019867	outer membrane	0.123027693	0.556434316
GO:2000117	negative regulation of cysteine-type endopeptidase activ	0.122984887	0.556486758
ENSG00000197971	MBP subnetwork	0.122949477	0.556522468
GO:0002456	T cell mediated immunity	0.123246481	0.557401206
ENSG00000136653	RASSF5 subnetwork	0.123285995	0.557415467
ENSG00000080845	DLGAP4 subnetwork	0.123383339	0.557527601
ENSG00000152234	ATP5A1 subnetwork	0.123348859	0.55753012
GO:0044212	transcription regulatory region DNA binding	0.123500159	0.557976589
ENSG00000206557	TRIM71 subnetwork	0.12364825	0.558205214
ENSG00000166889	PATL1 subnetwork	0.123614167	0.558207957
ENSG00000150687	PRSS23 subnetwork	0.123787645	0.558837287
ENSG00000090339	ICAM1 subnetwork	0.12402965	0.559749583
GO:0008207	C21-steroid hormone metabolic process	0.123999603	0.559769539
GO:0007163	establishment or maintenance of cell polarity	0.12425888	0.560353451
ENSG00000173542	MOB1B subnetwork	0.124303463	0.5604
MP:0000321	increased bone marrow cell number	0.12425669	0.560523682
MP:0004056	abnormal myocardium compact layer morphology	0.124247788	0.560694027
ENSG00000175029	CTBP2 subnetwork	0.124234802	0.560847797
MP:0004805	absent oocytes	0.124433311	0.560879707
ENSG00000174233	ADCY6 subnetwork	0.124670524	0.562075283
MP:0004499	increased incidence of chemically-induced tumors	0.124784944	0.562366844
ENSG00000011052	NME2 subnetwork	0.124861372	0.562408516
ENSG00000134574	DDB2 subnetwork	0.124761883	0.562437562
ENSG00000119689	DLST subnetwork	0.124857079	0.562595674
GO:0045768	positive regulation of anti-apoptosis	0.125119344	0.563214761
GO:0040008	regulation of growth	0.125097941	0.56333555
GO:0000781	chromosome, telomeric region	0.125274805	0.563887043
ENSG00000184110	EIF3C subnetwork	0.125255159	0.563958126
ENSG00000205937	RNPS1 subnetwork	0.125341023	0.564164729
ENSG00000140538	NTRK3 subnetwork	0.125649731	0.564953581
GO:0090312	positive regulation of protein deacetylation	0.125568551	0.565051444
ENSG00000166266	CUL5 subnetwork	0.1256456	0.565107794
GO:0009894	regulation of catabolic process	0.125615776	0.565129396
ENSG00000151150	ANK3 subnetwork	0.125560427	0.565205843
ENSG00000172572	PDE3A subnetwork	0.125778814	0.56528008
MP:0004875	increased mean systemic arterial blood pressure	0.12583706	0.56530308
ENSG00000123609	NMI subnetwork	0.125940609	0.565359153
GO:0043491	protein kinase B signaling cascade	0.125818176	0.565424122
GO:0016579	protein deubiquitination	0.125923709	0.565480132

ENSG00000171862	PTEN subnetwork	0.126092196	0.565982793
ENSG00000165630	PRPF18 subnetwork	0.126318787	0.567036057
ENSG00000079435	LIPE subnetwork	0.126382891	0.567080026
MP:0002408	abnormal double-positive T cell morphology	0.126468835	0.567355372
REACTOME_EGFR_INTERACTS_W	REACTOME_EGFR_INTERACTS_WITH_PHOSPHOLIPASE_	0.12651443	0.567465301
ENSG00000072135	PTPN18 subnetwork	0.126558927	0.567525603
GO:0031348	negative regulation of defense response	0.126660394	0.567651915
GO:0045408	regulation of interleukin-6 biosynthetic process	0.12674546	0.567992737
ENSG00000163781	TOPBP1 subnetwork	0.126859096	0.568168317
GO:0045444	fat cell differentiation	0.126960806	0.568304749
ENSG00000115808	STRN subnetwork	0.126932492	0.568327285
MP:0001179	thick pulmonary interalveolar septum	0.127148786	0.568951879
ENSG00000069869	NEDD4 subnetwork	0.127109904	0.569007583
ENSG00000119335	SET subnetwork	0.127334294	0.569637562
MP:0001658	increased mortality induced by gamma-irradiation	0.127486878	0.569881501
GO:0005083	small GTPase regulator activity	0.127478951	0.570052684
ENSG00000112685	EXOC2 subnetwork	0.127564666	0.570065789
ENSG00000031544	ENSG00000031544 subnetwork	0.127539192	0.570088845
ENSG00000141101	NOB1 subnetwork	0.127462137	0.57020751
GO:0051270	regulation of cellular component movement	0.127713439	0.570430638
ENSG00000085117	CD82 subnetwork	0.127702888	0.57055245
GO:0040017	positive regulation of locomotion	0.128027537	0.571119134
MP:0010876	decreased bone volume	0.12800182	0.571208142
MP:0011290	decreased nephron number	0.127975836	0.571297209
MP:0008008	early cellular replicative senescence	0.127964871	0.571386334
ENSG00000161021	MAML1 subnetwork	0.12793941	0.571409793
ENSG00000158987	RAPGEF6 subnetwork	0.128298123	0.57234252
ENSG00000184451	CCR10 subnetwork	0.128380551	0.572377049
ENSG00000134046	MBD2 subnetwork	0.128426599	0.572386103
KEGG_RIBOSOME	KEGG_RIBOSOME	0.128355062	0.572466382
ENSG00000051180	RAD51 subnetwork	0.128535556	0.572903014
ENSG00000102871	TRADD subnetwork	0.128607483	0.572977399
MP:0000334	decreased granulocyte number	0.128715786	0.573191489
GO:0042095	interferon-gamma biosynthetic process	0.128686396	0.573248199
ENSG00000188170	ENSG00000188170 subnetwork	0.12895456	0.573797841
ENSG00000065485	PDIA5 subnetwork	0.128993185	0.573806409
ENSG00000077809	GTF2I subnetwork	0.128909109	0.573871073
ENSG00000165637	VDAC2 subnetwork	0.129206745	0.574273113
GO:0005161	platelet-derived growth factor receptor binding	0.12918276	0.574444444
ENSG00000178568	ERBB4 subnetwork	0.12917955	0.574566852
MP:0002118	abnormal lipid homeostasis	0.129332627	0.574640758
MP:0005277	abnormal brainstem morphology	0.129408859	0.574763304
ENSG00000204348	DOM3Z subnetwork	0.13010725	0.575251869
ENSG00000206266	ENSG00000206266 subnetwork	0.13010725	0.575438882
ENSG00000104938	CLEC4M subnetwork	0.129975237	0.575504557
ENSG00000198211	TUBB3 subnetwork	0.129817708	0.57553781
GO:0003950	NAD+ ADP-ribosyltransferase activity	0.129861668	0.57554578
ENSG00000100302	RASD2 subnetwork	0.12967626	0.575562806
GO:0006959	humoral immune response	0.130069383	0.575569291
MP:0005164	abnormal response to injury	0.12989787	0.575570033
GO:0046332	SMAD binding	0.130032393	0.575593882
GO:0033017	sarcoplasmic reticulum membrane	0.129636102	0.575603786
ENSG00000206346	DOM3Z subnetwork	0.13010725	0.575626016
ENSG00000138642	HERC6 subnetwork	0.129963005	0.575643113

ENSG00000101204	CHRNA4 subnetwork	0.129813	0.575692859
ENSG00000130332	LSM7 subnetwork	0.12981292	0.575880626
GO:0034694	response to prostaglandin stimulus	0.130334324	0.576267057
ENSG00000100097	LGALS1 subnetwork	0.130629677	0.577182733
GO:0003823	antigen binding	0.130526098	0.57720039
ENSG00000070770	CSNK2A2 subnetwork	0.13071011	0.577255029
ENSG00000114302	PRKAR2A subnetwork	0.130601469	0.577288961
ENSG00000204642	HLA-F subnetwork	0.131216551	0.579066753
ENSG00000184304	PRKD1 subnetwork	0.131121381	0.579111255
ENSG00000169714	CNBP subnetwork	0.131186839	0.579124797
ENSG00000197879	MYO1C subnetwork	0.131161702	0.579166667
ENSG00000120094	HOXB1 subnetwork	0.131571036	0.580709427
MP:0004889	increased energy expenditure	0.131918639	0.582399611
MP:0011294	renal glomerulus hypertrophy	0.131986135	0.58263192
ENSG00000136731	UGGT1 subnetwork	0.132183346	0.582751374
MP:0002183	gliosis	0.132180064	0.582923674
ENSG00000130699	TAF4 subnetwork	0.132178693	0.583096085
ENSG00000129351	ILF3 subnetwork	0.132142949	0.583171521
ENSG00000182367	ENSG00000182367 subnetwork	0.132963724	0.583210035
ENSG00000099860	GADD45B subnetwork	0.132310436	0.583290239
GO:0002690	positive regulation of leukocyte chemotaxis	0.132937727	0.583333333
ENSG00000067208	EVI5 subnetwork	0.133044472	0.583440514
GO:0031233	intrinsic to external side of plasma membrane	0.133240135	0.583461785
GO:0034774	secretory granule lumen	0.133330596	0.583488447
GO:0071559	response to transforming growth factor beta stimulus	0.132934546	0.583504989
ENSG00000008130	NADK subnetwork	0.133223292	0.58352072
GO:0044130	negative regulation of growth of symbiont in host	0.132907422	0.58356407
ENSG00000113643	RARS subnetwork	0.133191185	0.583627892
ENSG00000108443	RPS6KB1 subnetwork	0.133329319	0.583675762
MP:0003670	dilated renal glomerular capsule	0.132475033	0.58371567
GO:0012510	trans-Golgi network transport vesicle membrane	0.133179952	0.583735133
GO:0044126	regulation of growth of symbiont in host	0.132907422	0.583752013
ENSG00000002330	BAD subnetwork	0.133788821	0.583808
ENSG00000023734	STRAP subnetwork	0.133646323	0.583936579
GO:0044110	growth involved in symbiotic interaction	0.132907422	0.583940077
GO:0032733	positive regulation of interleukin-10 production	0.133782593	0.583994878
MP:0001175	abnormal lung morphology	0.133854789	0.584005118
GO:0000783	nuclear telomere cap complex	0.133570605	0.584022436
ENSG00000143799	PARP1 subnetwork	0.133473337	0.584087263
ENSG00000109819	PPARGC1A subnetwork	0.133763226	0.584101825
ENSG00000167553	TUBA1C subnetwork	0.133636601	0.584107658
GO:0044116	growth of symbiont involved in interaction with host	0.132907422	0.584128263
GO:0031000	response to caffeine	0.133540216	0.584172547
GO:0000782	telomere cap complex	0.133570605	0.584209683
GO:0044117	growth of symbiont in host	0.132907422	0.58431657
ENSG00000215328	HSPA1A subnetwork	0.13395532	0.584351023
MP:0002429	abnormal blood cell morphology/development	0.133935511	0.584409978
MP:0003634	abnormal glial cell morphology	0.132699706	0.584463824
GO:0044146	negative regulation of growth of symbiont involved in interaction	0.132907422	0.584504998
ENSG00000167670	CHAF1A subnetwork	0.132840663	0.584559535
MP:0011186	abnormal visceral endoderm morphology	0.132828125	0.584635249
GO:0045926	negative regulation of growth	0.134263211	0.584652202
GO:0044144	modulation of growth of symbiont involved in interaction	0.132907422	0.584693548
ENSG00000149091	DGKZ subnetwork	0.132804791	0.584711011

MP:0002929	abnormal bile duct development	0.134253748	0.584806894
REACTOME_PAUSING_AND_RECC	REACTOME_PAUSING_AND_RECOVERY_OF_ELONGATIO	0.134228326	0.584897829
GO:0031647	regulation of protein stability	0.134361771	0.58492823
REACTOME_HIV:1_ELONGATION_	REACTOME_HIV:1_ELONGATION_ARREST_AND_RECOVE	0.134228326	0.585084637
GO:0004675	transmembrane receptor protein serine/threonine kinas	0.134439119	0.585108418
REACTOME_PAUSING_AND_RECC	REACTOME_PAUSING_AND_RECOVERY_OF_HIV:1_ELO	0.134228326	0.585271565
REACTOME_ELONGATION_ARRES	REACTOME_ELONGATION_ARREST_AND_RECOVERY	0.134228326	0.585458613
ENSG00000079277	MKNK1 subnetwork	0.134727021	0.586121734
ENSG00000161955	TNFSF13 subnetwork	0.134880192	0.586123488
MP:0000414	alopecia	0.134840464	0.586150907
GO:0048015	phosphatidylinositol-mediated signaling	0.134804115	0.58616242
GO:0042542	response to hydrogen peroxide	0.134722515	0.586292636
GO:0048017	inositol lipid-mediated signaling	0.134804115	0.586349156
MP:0001209	spontaneous skin ulceration	0.134974364	0.586446071
ENSG00000169398	PTK2 subnetwork	0.13516168	0.586963434
GO:0005741	mitochondrial outer membrane	0.1352031	0.586967578
ENSG00000008294	SPAG9 subnetwork	0.13513673	0.587070611
MP:0003566	abnormal cell adhesion	0.135582071	0.587321712
GO:0022626	cytosolic ribosome	0.135560499	0.587428662
REACTOME_ACTIVATED_TAK1_M	REACTOME_ACTIVATED_TAK1_MEDIATES_P38_MAPK_A	0.135555732	0.58761497
ENSG00000145723	GIN1 subnetwork	0.135543571	0.587722081
GO:0031093	platelet alpha granule lumen	0.135537206	0.587829261
ENSG00000168078	PBK subnetwork	0.135494196	0.587948555
MP:0001121	uterus hypoplasia	0.135516588	0.587968254
ENSG00000136717	BIN1 subnetwork	0.135732178	0.588038657
GO:0043500	muscle adaptation	0.135489978	0.588103558
MP:0006094	increased fat cell size	0.135777106	0.588137472
MP:0002957	intestinal adenocarcinoma	0.135486329	0.588290435
GO:0002221	pattern recognition receptor signaling pathway	0.13601833	0.588449367
ENSG00000019991	HGF subnetwork	0.136006524	0.588588161
ENSG00000214485	ENSG00000214485 subnetwork	0.135972816	0.588679544
MP:0004893	decreased adiponectin level	0.136134685	0.58881683
GO:0007004	telomere maintenance via telomerase	0.136309527	0.589563567
ENSG00000164338	UTP15 subnetwork	0.136377445	0.589709137
ENSG00000159251	ACTC1 subnetwork	0.136526533	0.590107459
GO:0016641	oxidoreductase activity, acting on the CH-NH2 group of c	0.137058602	0.592432859
ENSG00000160087	UBE2J2 subnetwork	0.13711966	0.592514214
ENSG00000087303	NID2 subnetwork	0.137399579	0.593341748
ENSG00000197757	HOXC6 subnetwork	0.137319974	0.593369119
ENSG00000137324	ENSG00000137324 subnetwork	0.137513713	0.593379571
GO:0003705	RNA polymerase II distal enhancer sequence-specific DN	0.137560654	0.593381658
GO:0034142	toll-like receptor 4 signaling pathway	0.137385129	0.593450126
ENSG00000206376	EHMT2 subnetwork	0.137513713	0.593566698
ENSG00000204371	EHMT2 subnetwork	0.137513713	0.593753943
KEGG_CIRCADIAN_RHYTHM_MAM	KEGG_CIRCADIAN_RHYTHM_MAMMAL	0.137878753	0.594833018
ENSG00000131504	DIAPH1 subnetwork	0.137921014	0.59488189
GO:0051879	Hsp90 protein binding	0.138458312	0.596164728
ENSG00000115590	IL1R2 subnetwork	0.138300249	0.596175637
ENSG00000089159	PXN subnetwork	0.138427698	0.596194969
ENSG00000105671	DDX49 subnetwork	0.138408438	0.5962095
MP:0000336	decreased mast cell number	0.138280428	0.596268892
MP:0002079	increased circulating insulin level	0.138583958	0.596324222
GO:0051347	positive regulation of transferase activity	0.138402698	0.596381372
GO:0002360	T cell lineage commitment	0.138561753	0.596464488

GO:0003678	DNA helicase activity	0.138766857	0.59648462
ENSG00000113916	BCL6 subnetwork	0.138695099	0.59656093
GO:0030529	ribonucleoprotein complex	0.138824661	0.596642611
REACTOME_MAP_KINASE_ACTIVATION_IN_TLR_CASCADE	REACTOME_MAP_KINASE_ACTIVATION_IN_TLR_CASCADE	0.13875797	0.596656201
REACTOME_SIGNALING_BY_TGF_BETA	REACTOME_SIGNALING_BY_TGF_BETA	0.139169477	0.597663844
ENSG00000104408	EIF3E subnetwork	0.139143811	0.597788582
MP:0005264	glomerulosclerosis	0.139255142	0.597962382
GO:0015248	sterol transporter activity	0.139393047	0.598167293
GO:0044454	nuclear chromosome part	0.13935019	0.598198057
ENSG00000178951	ZBTB7A subnetwork	0.139548896	0.598512371
ENSG00000119630	PGF subnetwork	0.139695983	0.599076393
ENSG00000077420	APBB1P subnetwork	0.139791184	0.599139549
GO:0005942	phosphatidylinositol 3-kinase complex	0.139764699	0.599217527
ENSG00000100387	RBX1 subnetwork	0.139856623	0.599280576
GO:0045648	positive regulation of erythrocyte differentiation	0.139964225	0.599546592
ENSG00000145192	AHSG subnetwork	0.140101145	0.599828071
GO:0032451	demethylase activity	0.140210788	0.6000625
GO:0004860	protein kinase inhibitor activity	0.140730278	0.601669267
ENSG00000162889	MAPKAPK2 subnetwork	0.14060392	0.601686446
ENSG00000099956	SMARCB1 subnetwork	0.140558155	0.601702593
GO:0051721	protein phosphatase 2A binding	0.140778142	0.601715533
GO:0030162	regulation of proteolysis	0.140826964	0.60173005
ENSG00000014216	CAPN1 subnetwork	0.14080878	0.601761771
ENSG00000160447	PKN3 subnetwork	0.140714834	0.601825843
ENSG00000099942	CRKL subnetwork	0.140675051	0.601857633
ENSG00000139546	TARBP2 subnetwork	0.141080945	0.602445483
ENSG00000100867	DHRS2 subnetwork	0.141034218	0.602446245
ENSG00000077549	CAPZB subnetwork	0.141371984	0.603565867
ENSG00000061936	SFSWAP subnetwork	0.141557946	0.604374222
ENSG00000196954	CASP4 subnetwork	0.141667984	0.604777467
GO:0032616	interleukin-13 production	0.14181245	0.60503888
ENSG00000103126	AXIN1 subnetwork	0.141783134	0.605102676
GO:0008757	S-adenosylmethionine-dependent methyltransferase activity	0.142131072	0.605748912
ENSG00000140379	BCL2A1 subnetwork	0.142100377	0.605859496
ENSG00000092969	TGFB2 subnetwork	0.142062483	0.605923507
KEGG_GLIOMA	KEGG_GLIOMA	0.142200801	0.60593352
ENSG00000138756	BMP2K subnetwork	0.142375201	0.606380006
ENSG00000028839	TBPL1 subnetwork	0.142351165	0.606459627
GO:0042226	interleukin-6 biosynthetic process	0.142501587	0.606562209
ENSG00000105372	RPS19 subnetwork	0.142533655	0.6066067
ENSG00000121057	AKAP1 subnetwork	0.142460316	0.606657356
GO:0022409	positive regulation of cell-cell adhesion	0.143785342	0.60683984
GO:2001056	positive regulation of cysteine-type endopeptidase activity	0.143924804	0.606879607
ENSG00000179151	EDC3 subnetwork	0.143850121	0.606914567
GO:0048144	fibroblast proliferation	0.143770999	0.606964945
GO:0048520	positive regulation of behavior	0.143712344	0.606982467
ENSG00000160282	FTCD subnetwork	0.143651176	0.607032933
GO:0043130	ubiquitin binding	0.142655558	0.60703876
ENSG00000175221	MED16 subnetwork	0.144015089	0.607046362
GO:0043280	positive regulation of cysteine-type endopeptidase activity	0.143924804	0.607066052
REACTOME_COMMON_PATHWAY	REACTOME_COMMON_PATHWAY	0.143623437	0.607096675
GO:0032101	regulation of response to external stimulus	0.144073306	0.607105586
ENSG00000143632	ACTA1 subnetwork	0.143699332	0.607107692
ENSG00000108504	ENSG00000108504 subnetwork	0.144104828	0.607118748

ENSG00000120008	WDR11 subnetwork	0.1436085	0.607175855
GO:0032612	interleukin-1 production	0.143607572	0.607362908
ENSG00000167815	PRDX2 subnetwork	0.142929177	0.607510065
REACTOME_TAT:MEDIATED_HIV::	REACTOME_TAT:MEDIATED_HIV:1_ELONGATION_ARRES	0.143587533	0.60751926
GO:0043487	regulation of RNA stability	0.144249684	0.60756135
GO:0048636	positive regulation of muscle organ development	0.142892847	0.607589839
REACTOME_PAUSING_AND_RECC	REACTOME_PAUSING_AND_RECOVERY_OF_TAT:MEDIA	0.143587533	0.607706535
ENSG00000197694	SPTAN1 subnetwork	0.142835432	0.607749535
GO:0045844	positive regulation of striated muscle tissue developmen	0.142892847	0.607778122
MP:0005592	abnormal vascular smooth muscle morphology	0.143576535	0.607816836
GO:0019207	kinase regulator activity	0.144348116	0.607881018
ENSG00000136111	TBC1D4 subnetwork	0.143026051	0.607894737
ENSG00000182287	AP1S2 subnetwork	0.14352249	0.607914224
ENSG00000128692	ENSG00000128692 subnetwork	0.143564099	0.607942628
ENSG00000143171	RXRG subnetwork	0.143327575	0.607972806
MP:0000420	ruffled hair	0.143500468	0.608009259
KEGG_SYSTEMIC_LUPUS_ERYTHE	KEGG_SYSTEMIC_LUPUS_ERYTHEMATOSUS	0.1433731	0.608047575
ENSG00000149480	MTA2 subnetwork	0.143320686	0.608145286
ENSG00000144061	NPHP1 subnetwork	0.143488192	0.608150664
ENSG00000213949	ITGA1 subnetwork	0.143293471	0.608163265
ENSG00000099991	CABIN1 subnetwork	0.143152485	0.608232745
GO:0032715	negative regulation of interleukin-6 production	0.143462228	0.608261272
MP:0005023	abnormal wound healing	0.14327947	0.60830498
ENSG00000145833	DDX46 subnetwork	0.143279366	0.608493193
ENSG00000145414	NAF1 subnetwork	0.144990855	0.610940852
ENSG00000078401	EDN1 subnetwork	0.144980729	0.611112814
GO:0010950	positive regulation of endopeptidase activity	0.145067662	0.611121324
MP:0000601	small liver	0.14547945	0.612492345
GO:0002230	positive regulation of defense response to virus by host	0.145438006	0.612511485
ENSG00000163938	GNL3 subnetwork	0.145581262	0.612687481
ENSG00000107341	UBE2R2 subnetwork	0.145890597	0.613604402
MP:0001145	abnormal male reproductive system morphology	0.145949708	0.613661369
GO:0032411	positive regulation of transporter activity	0.145886988	0.613761468
GO:0042308	negative regulation of protein import into nucleus	0.145847133	0.613796268
ENSG00000162869	PPP1R21 subnetwork	0.145813461	0.613846389
GO:0032182	small conjugating protein binding	0.146376411	0.614876411
ENSG00000198380	GFPT1 subnetwork	0.146351037	0.614972527
ENSG00000144158	ENSG00000144158 subnetwork	0.146475828	0.615054912
MP:0003459	increased fear-related response	0.146272288	0.61507791
ENSG00000140750	ARHGAP17 subnetwork	0.146344886	0.615099237
ENSG00000164362	TERT subnetwork	0.147040768	0.615202189
ENSG00000141434	MEP1B subnetwork	0.146558968	0.615202806
ENSG00000115685	PPP1R7 subnetwork	0.146330252	0.615210751
MP:0010948	abnormal double-strand DNA break repair	0.147038617	0.615374088
ENSG00000140986	RPL3L subnetwork	0.146926654	0.615525114
ENSG00000175387	SMAD2 subnetwork	0.147034104	0.615546091
ENSG000000005194	CIAPIN1 subnetwork	0.147169312	0.615592705
GO:0031063	regulation of histone deacetylation	0.14701503	0.61559647
ENSG00000088826	SMOX subnetwork	0.146670978	0.615625
ENSG00000054523	KIF1B subnetwork	0.146925403	0.615712546
KEGG_VASCULAR_SMOOTH_MUS	KEGG_VASCULAR_SMOOTH_MUSCLE_CONTRACTION	0.146806355	0.61575259
MP:0004256	abnormal maternal decidua layer morphology	0.146906987	0.615854401
ENSG00000167971	CASKIN1 subnetwork	0.146780577	0.615909784
ENSG00000141068	KSR1 subnetwork	0.147524208	0.615928398

GO:0043543	protein acylation	0.147495521	0.61599393
ENSG00000143878	RHOB subnetwork	0.147614988	0.615999393
GO:0000228	nuclear chromosome	0.147476146	0.616150577
MP:0008720	impaired neutrophil chemotaxis	0.147452195	0.616276951
KEGG_ASCORBATE_AND_ALDARA	KEGG_ASCORBATE_AND_ALDARATE_METABOLISM	0.147432603	0.616403402
ENSG00000067596	DHX8 subnetwork	0.147396923	0.616408387
ENSG00000205726	ITSN1 subnetwork	0.147744026	0.616616131
GO:0030130	clathrin coat of trans-Golgi network vesicle	0.147986106	0.617414368
ENSG00000132646	PCNA subnetwork	0.148130571	0.617909091
GO:0032731	positive regulation of interleukin-1 beta production	0.148393263	0.618791641
GO:0042990	regulation of transcription factor import into nucleus	0.148362484	0.618812481
GO:0061180	mammary gland epithelium development	0.148513744	0.619013018
ENSG00000078061	ARAF subnetwork	0.148558444	0.61903753
MP:0000382	underdeveloped hair follicles	0.148619704	0.619122542
GO:0032735	positive regulation of interleukin-12 production	0.148702393	0.619434362
MP:0008706	decreased interleukin-6 secretion	0.148812961	0.619655277
ENSG00000100079	LGALS2 subnetwork	0.148877619	0.619709794
ENSG00000152270	PDE3B subnetwork	0.14896298	0.619990934
ENSG00000078399	HOXA9 subnetwork	0.149086399	0.620543807
ENSG00000115694	STK25 subnetwork	0.149322123	0.621467391
GO:0033028	myeloid cell apoptotic process	0.149285913	0.621473875
GO:0043627	response to estrogen stimulus	0.149667701	0.622955026
MP:0000249	abnormal blood vessel physiology	0.149743103	0.623129149
ENSG00000114739	ACVR2B subnetwork	0.149809493	0.623167421
GO:0032870	cellular response to hormone stimulus	0.149967166	0.623349412
GO:0005802	trans-Golgi network	0.149944836	0.623446924
GO:0046782	regulation of viral transcription	0.15016967	0.623869801
ENSG00000115274	INO80B subnetwork	0.150442196	0.6243528
ENSG00000137752	CASP1 subnetwork	0.150425587	0.624465522
ENSG00000100364	KIAA0930 subnetwork	0.150398779	0.624578313
GO:0042287	MHC protein binding	0.150393641	0.624751431
MP:0006355	abnormal sixth branchial arch artery morphology	0.150786221	0.625511432
ENSG00000151694	ADAM17 subnetwork	0.150760896	0.625624436
ENSG00000183093	ENSG00000183093 subnetwork	0.151583928	0.625988616
ENSG00000157540	DYRK1A subnetwork	0.150949717	0.626015038
ENSG00000129219	PLD2 subnetwork	0.151546491	0.626026371
ENSG00000148396	SEC16A subnetwork	0.151059759	0.626044485
GO:0019080	viral genome expression	0.151514068	0.626094125
GO:0004683	calmodulin-dependent protein kinase activity	0.151027043	0.626112447
ENSG00000125991	ERGIC3 subnetwork	0.151203154	0.626239111
MP:0002640	reticulocytosis	0.151154111	0.626246995
GO:0019083	viral transcription	0.151514068	0.626281859
GO:0010952	positive regulation of peptidase activity	0.151336248	0.626448514
ENSG00000176406	RIMS2 subnetwork	0.151513138	0.626469706
ENSG000000071655	MBD3 subnetwork	0.151325275	0.626591592
MP:0008058	abnormal DNA repair	0.151501526	0.626627663
ENSG00000120837	NFYB subnetwork	0.151500518	0.626815726
ENSG00000110367	DDX6 subnetwork	0.151826399	0.626819407
ENSG00000111961	SASH1 subnetwork	0.15194474	0.627125749
REACTOME_SIGNAL_TRANSDUCT	REACTOME_SIGNAL_TRANSDUCTION_BY_L1	0.151993469	0.627192457
ENSG00000185825	BCAP31 subnetwork	0.152341248	0.628231598
ENSG00000205918	ENSG00000205918 subnetwork	0.152525751	0.628430493
GO:0009988	cell-cell recognition	0.152432632	0.628507329
ENSG00000116161	CACYBP subnetwork	0.152511336	0.628588517

ENSG00000117242	ENSG00000117242 subnetwork	0.152706891	0.628816851
ENSG00000089693	MLF2 subnetwork	0.152694769	0.628974895
GO:0021854	hypothalamus development	0.152785133	0.629077061
ENSG00000106571	GLI3 subnetwork	0.152825108	0.629083308
ENSG00000177971	IMP3 subnetwork	0.152958066	0.629295943
ENSG00000181555	SETD2 subnetwork	0.152926942	0.62941791
GO:0034138	toll-like receptor 3 signaling pathway	0.152954078	0.629453894
ENSG00000110237	ARHGEF17 subnetwork	0.153109674	0.629674918
GO:0009617	response to bacterium	0.153186413	0.629815146
ENSG00000111652	COPS7A subnetwork	0.153447912	0.630789866
GO:0045080	positive regulation of chemokine biosynthetic process	0.153655179	0.631451132
GO:0019318	hexose metabolic process	0.153709345	0.631560917
ENSG00000141232	TOB1 subnetwork	0.153793624	0.631571896
ENSG00000155926	SLA subnetwork	0.15376135	0.631715307
ENSG00000172062	SMN1 subnetwork	0.154098099	0.631857355
ENSG00000205571	SMN2 subnetwork	0.154098099	0.632045184
ENSG00000168538	TRAPPC11 subnetwork	0.154020726	0.632108864
ENSG00000118181	RPS25 subnetwork	0.154089234	0.632158787
ENSG00000068024	HDAC4 subnetwork	0.154014842	0.632282059
ENSG00000198805	PNP subnetwork	0.154011137	0.632440476
ENSG00000149930	TAOK2 subnetwork	0.154323263	0.632714583
MP:0001691	abnormal somite shape	0.154317625	0.632902555
GO:0015935	small ribosomal subunit	0.154437157	0.633061164
ENSG00000155959	VBP1 subnetwork	0.154514917	0.63317008
GO:0008186	RNA-dependent ATPase activity	0.154698905	0.633827893
GO:0005072	transforming growth factor beta receptor, cytoplasmic n	0.154769021	0.633921685
GO:0046834	lipid phosphorylation	0.155017751	0.634578885
REACTOME_VIRAL_MRNA_TRANS	REACTOME_VIRAL_MRNA_TRANSLATION	0.155300795	0.63526971
ENSG00000072518	MARK2 subnetwork	0.155285843	0.635443226
MP:0002768	small adrenal glands	0.155400735	0.6356
ENSG00000166913	YWHAB subnetwork	0.155631543	0.636467279
MP:0003209	abnormal pulmonary elastic fiber morphology	0.155588112	0.636492891
ENSG00000198130	HIBCH subnetwork	0.155788984	0.636900533
MP:0005179	decreased circulating cholesterol level	0.155847606	0.63706718
ENSG00000111716	LDHB subnetwork	0.155970059	0.637089618
ENSG00000131023	LATS1 subnetwork	0.155959525	0.637278107
ENSG00000164924	YWHAZ subnetwork	0.156070475	0.637448255
ENSG00000076555	ACACB subnetwork	0.156383774	0.63764758
GO:0016607	nuclear speck	0.156548537	0.637687998
ENSG00000124207	CSE1L subnetwork	0.156348973	0.637732507
GO:0034968	histone lysine methylation	0.15661358	0.63776533
ENSG00000159461	AMFR subnetwork	0.156532276	0.637772861
REACTOME_FORMATION_OF_A_I	REACTOME_FORMATION_OF_A_POOL_OF_FREE_40S_S	0.156683901	0.637827881
ENSG00000115020	PIKFYVE subnetwork	0.156340942	0.637891317
ENSG00000116044	NFE2L2 subnetwork	0.156530485	0.63796105
ENSG00000099783	HNRNPM subnetwork	0.156338771	0.638079764
GO:0045087	innate immune response	0.156291093	0.638091017
GO:0016493	C-C chemokine receptor activity	0.156288522	0.638264854
ENSG00000135503	ACVR1B subnetwork	0.156982874	0.638457008
ENSG00000142611	PRDM16 subnetwork	0.156951147	0.638497791
ENSG00000211456	SACM1L subnetwork	0.156931221	0.638612257
GO:0001914	regulation of T cell mediated cytotoxicity	0.157122749	0.638743378
ENSG00000172172	MRPL13 subnetwork	0.157180915	0.638849662
GO:0016605	PML body	0.157102383	0.638872535

MP:0003909	increased eating behavior	0.157235886	0.639
ENSG00000166484	MAPK7 subnetwork	0.157461211	0.639900029
ENSG00000183918	SH2D1A subnetwork	0.15755625	0.639964737
ENSG00000120265	PCMT1 subnetwork	0.157523676	0.639991182
ENSG00000132825	PPP1R3D subnetwork	0.157711184	0.640320212
ENSG00000163513	TGFBR2 subnetwork	0.157895141	0.640402113
ENSG00000113460	BRX1 subnetwork	0.157869295	0.640502055
ENSG00000140382	HMG20A subnetwork	0.158182166	0.640624084
ENSG00000163017	ACTG2 subnetwork	0.158115844	0.640650645
ENSG00000116062	MSH6 subnetwork	0.158230223	0.640656122
ENSG00000108840	HDAC5 subnetwork	0.157853007	0.640660793
MP:0010903	abnormal pulmonary alveolus wall morphology	0.158353513	0.640693591
ENSG00000186446	ZNF501 subnetwork	0.158391176	0.640696314
ENSG00000102024	PLS3 subnetwork	0.158046637	0.640762463
ENSG00000189229	ENSG00000189229 subnetwork	0.158090183	0.640765172
ENSG00000170727	BOP1 subnetwork	0.158337391	0.640778689
GO:0001961	positive regulation of cytokine-mediated signaling pathway	0.158483785	0.640830652
KEGG_PATHOGENIC_ESCHERICHIA_COLI_INFECTION	KEGG_PATHOGENIC_ESCHERICHIA_COLI_INFECTION	0.158635579	0.640838691
ENSG00000099246	RAB18 subnetwork	0.158037766	0.640921091
MP:0009643	abnormal urine homeostasis	0.158333368	0.640951684
ENSG00000171219	CDC42BPG subnetwork	0.158625273	0.640996785
ENSG00000113575	PPP2CA subnetwork	0.158020744	0.641006455
ENSG00000213585	VDAC1 subnetwork	0.158739213	0.64107508
GO:0002685	regulation of leukocyte migration	0.158608458	0.641140351
KEGG_ADHERENS_JUNCTION	KEGG_ADHERENS_JUNCTION	0.158879852	0.641182482
GO:0004115	3',5'-cyclic-AMP phosphodiesterase activity	0.158945346	0.641185055
GO:0000245	spliceosomal complex assembly	0.158849036	0.641252921
ENSG00000088205	DDX18 subnetwork	0.159044786	0.641348118
ENSG00000154710	RABGEF1 subnetwork	0.159369104	0.641727352
ENSG00000180628	PCGF5 subnetwork	0.159268573	0.641737103
ENSG00000072310	SREBF1 subnetwork	0.159178304	0.641746865
MP:0000260	abnormal angiogenesis	0.159148116	0.641759043
ENSG00000119408	NEK6 subnetwork	0.159424069	0.641817123
REACTOME_ETHANOL_OXIDATION	REACTOME_ETHANOL_OXIDATION	0.159240198	0.641822157
MP:0005048	thrombosis	0.159362161	0.641885198
MP:0002680	decreased corpora lutea number	0.159561526	0.64209607
MP:0005595	abnormal vascular smooth muscle physiology	0.159702289	0.642505821
ENSG00000164708	PGAM2 subnetwork	0.159790699	0.64275531
ENSG00000115963	RND3 subnetwork	0.159833456	0.642830134
REACTOME_PURINE_RIBONUCLEOSIDE_MONOPHOSPHATE_METABOLISM	REACTOME_PURINE_RIBONUCLEOSIDE_MONOPHOSPHATE_METABOLISM	0.159959472	0.643195696
ENSG00000196924	FLNA subnetwork	0.160520947	0.645377907
ENSG00000138771	SHROOM3 subnetwork	0.160560243	0.645408312
GO:0006094	gluconeogenesis	0.160789088	0.646179547
ENSG00000172613	RAD9A subnetwork	0.160831327	0.646180656
MP:0000188	abnormal circulating glucose level	0.161071035	0.647139954
ENSG00000141378	PTRH2 subnetwork	0.161124473	0.647155298
ENSG00000174547	MRPL11 subnetwork	0.161220501	0.647504353
REACTOME_CAP:DEPENDENT_TRANSLATION_INITIATION	REACTOME_CAP:DEPENDENT_TRANSLATION_INITIATION	0.161462316	0.648013917
ENSG00000173327	MAP3K11 subnetwork	0.161402606	0.648085292
REACTOME_EUKARYOTIC_TRANSLATION_INITIATION	REACTOME_EUKARYOTIC_TRANSLATION_INITIATION	0.161462316	0.648201856
GO:0051241	negative regulation of multicellular organismal process	0.161576502	0.648289855
ENSG00000111266	DUSP16 subnetwork	0.161685153	0.648406721
ENSG00000116288	PARK7 subnetwork	0.161647689	0.648464213
ENSG00000133511	ENSG00000133511 subnetwork	0.161860285	0.64881297

ENSG00000131374	TBC1D5 subnetwork	0.161959285	0.648900463
MP:0010418	perimembraneous ventricular septal defect	0.161849552	0.648928468
ENSG00000102241	HTATSF1 subnetwork	0.161927885	0.648986975
ENSG00000120437	ACAT2 subnetwork	0.162295569	0.650216951
GO:0030914	STAGA complex	0.162345561	0.650303644
ENSG00000117000	RLF subnetwork	0.162545874	0.650505634
ENSG00000156273	BACH1 subnetwork	0.162508928	0.650578035
ENSG00000131196	NFATC1 subnetwork	0.162489671	0.650693842
ENSG00000102753	KPNA3 subnetwork	0.162692511	0.651083189
ENSG00000148175	STOM subnetwork	0.162810425	0.651270575
ENSG00000100150	DEPDC5 subnetwork	0.162903366	0.651356813
ENSG0000022267	FHL1 subnetwork	0.163023749	0.65170225
ENSG00000174231	PRPF8 subnetwork	0.163018742	0.651890332
MP:0011320	abnormal glomerular capillary morphology	0.163157768	0.652018454
ENSG00000142675	CNKSRI subnetwork	0.163143363	0.652148832
ENSG00000111605	CPSF6 subnetwork	0.163249601	0.652205246
GO:0071478	cellular response to radiation	0.163534208	0.652216465
GO:0002821	positive regulation of adaptive immune response	0.163520745	0.652346674
MP:0004001	decreased hepatocyte proliferation	0.163366913	0.652463977
GO:0005730	nucleolus	0.163509203	0.65250576
ENSG00000160049	DFFA subnetwork	0.163491298	0.652650533
REACTOME_EUKARYOTIC_TRANSLATION_ELONGATION	REACTOME_EUKARYOTIC_TRANSLATION_ELONGATION	0.163764736	0.653021583
ENSG00000129354	AP1M2 subnetwork	0.163916351	0.653322785
MP:0005220	abnormal exocrine pancreas morphology	0.164008808	0.653738855
MP:0008869	anovulation	0.164180454	0.654067261
ENSG00000168066	SF1 subnetwork	0.164135875	0.65406843
ENSG00000151067	CACNA1C subnetwork	0.164373221	0.65466954
ENSG00000172936	MYD88 subnetwork	0.164629681	0.654806313
ENSG00000100697	DICER1 subnetwork	0.164433395	0.654811836
MP:0008000	increased ovary tumor incidence	0.164673762	0.654819277
GO:0006469	negative regulation of protein kinase activity	0.164528022	0.654895205
ENSG00000175899	A2M subnetwork	0.164498782	0.654910971
MP:0001501	abnormal sleep pattern	0.164740029	0.654918268
REACTOME_DAG_AND_IP3_SIGNALING	REACTOME_DAG_AND_IP3_SIGNALING	0.164614817	0.654936854
GO:0043154	negative regulation of cysteine-type endopeptidase activity	0.164783877	0.654959862
ENSG00000106617	PRKAG2 subnetwork	0.16494434	0.655574663
GO:0031983	vesicle lumen	0.165282864	0.656500573
ENSG00000148516	ZEB1 subnetwork	0.165269045	0.656631338
ENSG00000119760	SUPT7L subnetwork	0.165218953	0.656633238
ENSG00000111087	GLI1 subnetwork	0.165520271	0.657386201
ENSG00000133895	MEN1 subnetwork	0.165822029	0.657937643
ENSG00000174780	SRP72 subnetwork	0.16577995	0.657939914
MP:0004207	squamous cell carcinoma	0.165727828	0.657985117
ENSG00000013364	MVP subnetwork	0.166116981	0.658009709
GO:0071013	catalytic step 2 spliceosome	0.165958406	0.658147513
MP:0005318	decreased triglyceride level	0.166098556	0.658154813
GO:0005217	intracellular ligand-gated ion channel activity	0.165905098	0.658207035
ENSG00000170962	PDGFD subnetwork	0.166095361	0.658314286
ENSG00000145431	PDGFC subnetwork	0.166095361	0.658502429
ENSG00000042429	MED17 subnetwork	0.166341842	0.658721096
REACTOME_P75NTR_RECRUITS_SIGNALLING_COMPLEX	REACTOME_P75NTR_RECRUITS_SIGNALLING_COMPLEX	0.166506403	0.659160959
ENSG00000107937	GTPBP4 subnetwork	0.166668961	0.659743224
MP:0004560	abnormal chorionic plate morphology	0.16680049	0.659908754
GO:0060389	pathway-restricted SMAD protein phosphorylation	0.167521398	0.6599631

MP:0001862	interstitial pneumonia	0.166778518	0.659997148
GO:0017124	SH3 domain binding	0.167594737	0.660045403
ENSG00000108395	TRIM37 subnetwork	0.167259481	0.66008248
KEGG_TIGHT_JUNCTION	KEGG_TIGHT_JUNCTION	0.166907989	0.660102593
GO:0032651	regulation of interleukin-1 beta production	0.167331012	0.660122263
MP:0000367	abnormal coat/ hair morphology	0.16751783	0.660136286
ENSG00000076641	PAG1 subnetwork	0.167062744	0.660165148
GO:0048475	coated membrane	0.167014785	0.660168043
ENSG00000147649	MTDH subnetwork	0.167440507	0.660184659
ENSG00000130779	CLIP1 subnetwork	0.167222276	0.660199147
ENSG00000109906	ZBTB16 subnetwork	0.167380065	0.660204662
GO:2000243	positive regulation of reproductive process	0.166884687	0.660233751
ENSG00000163931	TKT subnetwork	0.167177541	0.660273193
MP:0010249	lactation failure	0.167807046	0.660292033
REACTOME_O:LINKED_GLYCOSYL	REACTOME_O:LINKED_GLYCOSYLATION_OF_MUCINS	0.167512643	0.660309571
ENSG00000065534	MYLK subnetwork	0.167141045	0.660318816
ENSG00000175054	ATR subnetwork	0.167434432	0.660343848
GO:0030117	membrane coat	0.167014785	0.660356125
GO:0014823	response to activity	0.167779566	0.660380034
GO:0070603	SWI/SNF-type complex	0.167909226	0.660416667
ENSG00000159131	GART subnetwork	0.167738088	0.660496454
MP:0001923	reduced female fertility	0.168065864	0.660782091
GO:0030374	ligand-dependent nuclear receptor transcription coactiv	0.168198344	0.660843715
GO:0001892	embryonic placenta development	0.168165935	0.660903427
GO:0032006	regulation of TOR signaling cascade	0.168131403	0.660963173
GO:0047485	protein N-terminus binding	0.168460704	0.661202263
ENSG00000110711	AIP subnetwork	0.168437892	0.661375212
MP:0008874	decreased physiological sensitivity to xenobiotic	0.168412923	0.661435041
MP:0001726	abnormal allantois morphology	0.168683194	0.661863688
REACTOME_METABOLISM_OF_R	REACTOME_METABOLISM_OF_RNA	0.168795357	0.662044105
ENSG00000152382	TADA1 subnetwork	0.169003666	0.662644815
MP:0009011	prolonged diestrus	0.16896012	0.662662521
ENSG00000122870	BICC1 subnetwork	0.16924844	0.663319209
GO:0050702	interleukin-1 beta secretion	0.169374752	0.663438735
GO:0016568	chromatin modification	0.16935725	0.663513132
ENSG00000185499	MUC1 subnetwork	0.169589746	0.663729913
ENSG00000133313	CNDP2 subnetwork	0.16955768	0.663733785
GO:0002820	negative regulation of adaptive immune response	0.169481599	0.66378775
ENSG00000100888	CHD8 subnetwork	0.169548563	0.663836389
ENSG00000134759	ELP2 subnetwork	0.169530932	0.663854402
ENSG00000135972	MRPS9 subnetwork	0.169705801	0.663965614
ENSG00000008128	CDK11A subnetwork	0.169840916	0.664169014
ENSG00000138768	USO1 subnetwork	0.169793457	0.664201183
ENSG00000106976	DNM1 subnetwork	0.170089412	0.664738176
REACTOME_PROLACTIN_RECEPT	REACTOME_PROLACTIN_RECEPTOR_SIGNALING	0.17015806	0.664776245
ENSG000000089048	ESF1 subnetwork	0.170089329	0.664925373
MP:0004964	absent inner cell mass	0.17035375	0.665101237
ENSG00000100485	SOS2 subnetwork	0.170275903	0.665222285
ENSG00000166025	AMOTL1 subnetwork	0.170349086	0.665288326
MP:0001155	arrest of spermatogenesis	0.170607061	0.665538072
REACTOME_ACTIVATED_AMPK_S	REACTOME_ACTIVATED_AMPK_STIMULATES_FATTY:ACI	0.170580422	0.665612704
ENSG00000117322	CR2 subnetwork	0.170537225	0.665645207
MP:0010909	pulmonary alveolar hemorrhage	0.170779598	0.666207865
ENSG00000168530	MYL1 subnetwork	0.17112867	0.667874193

ENSG00000186416	NKRF subnetwork	0.171163698	0.667925323
ENSG00000120656	TAF12 subnetwork	0.171440563	0.668541374
MP:0010810	increased type II pneumocyte number	0.171541561	0.668573031
GO:0003785	actin monomer binding	0.171409272	0.668588664
ENSG00000113240	CLK4 subnetwork	0.171369886	0.668635981
ENSG00000083168	KAT6A subnetwork	0.171522841	0.668662367
GO:0050709	negative regulation of protein secretion	0.171810484	0.669408632
MP:0002792	abnormal retinal vasculature morphology	0.171862469	0.669431213
MP:0011099	complete lethality throughout fetal growth and development	0.17190251	0.669495798
ENSG00000163902	RPN1 subnetwork	0.172099339	0.670022403
ENSG00000138798	EGF subnetwork	0.172144457	0.670030795
MP:0002884	abnormal branchial arch morphology	0.172338075	0.670752869
ENSG00000100726	TELO2 subnetwork	0.172441633	0.67106883
REACTOME_PLATELET_SENSITIZATION	REACTOME_PLATELET_SENSITIZATION_BY_LDL	0.172587422	0.671149008
GO:0002755	MyD88-dependent toll-like receptor signaling pathway	0.172562294	0.671182886
ENSG00000115935	WIPF1 subnetwork	0.1725396	0.671258741
MP:0003084	abnormal skeletal muscle fiber morphology	0.172846487	0.671897708
GO:0009225	nucleotide-sugar metabolic process	0.173053774	0.672701872
MP:0004991	decreased bone strength	0.173198065	0.672982407
MP:0005319	abnormal enzyme/ coenzyme level	0.173178947	0.673072626
ENSG00000134318	ROCK2 subnetwork	0.173423191	0.67361809
ENSG00000189091	SF3B3 subnetwork	0.173527646	0.673792911
GO:0060396	growth hormone receptor signaling pathway	0.17400551	0.673900334
ENSG00000083896	YTHDC1 subnetwork	0.174065763	0.67393543
GO:0071378	cellular response to growth hormone stimulus	0.17400551	0.674087998
ENSG00000111641	NOP2 subnetwork	0.173837176	0.674170616
REACTOME_ERKMAPK_TARGETS	REACTOME_ERKMAPK_TARGETS	0.173641536	0.674176897
ENSG00000145604	SKP2 subnetwork	0.173928053	0.67418501
GO:0034502	protein localization to chromosome	0.17399235	0.674247911
ENSG00000164609	SLU7 subnetwork	0.174170796	0.674248748
GO:0034134	toll-like receptor 2 signaling pathway	0.173802639	0.674274958
ENSG00000075151	EIF4G3 subnetwork	0.173925939	0.674345039
GO:0000790	nuclear chromatin	0.174247222	0.674381085
GO:0044246	regulation of multicellular organismal metabolic process	0.173798098	0.67446304
GO:0010921	regulation of phosphatase activity	0.174445122	0.674583102
GO:0016866	intramolecular transferase activity	0.174388541	0.674589936
GO:0033574	response to testosterone stimulus	0.174380257	0.674763626
GO:0033276	transcription factor TIFC complex	0.174789373	0.676104473
ENSG00000113013	HSPA9 subnetwork	0.174919582	0.676541667
ENSG00000015479	MATR3 subnetwork	0.175183892	0.676859046
MP:0003089	decreased skin tensile strength	0.175152674	0.676908132
MP:0002861	abnormal tail bud morphology	0.175062133	0.677006387
ENSG00000129048	CCRL1 subnetwork	0.17513429	0.677054414
REACTOME_N:GLYCAN_ANTENNAE	REACTOME_N:GLYCAN_ANTENNAE_ELONGATION_IN_T	0.175405547	0.677503467
ENSG00000168028	RPSA subnetwork	0.1756148	0.677813193
MP:0009406	decreased skeletal muscle fiber number	0.175740194	0.677839335
ENSG00000116761	CTH subnetwork	0.175702091	0.677902466
MP:0001552	increased circulating triglyceride level	0.175604105	0.677945661
MP:0002687	oligozoospermia	0.175572955	0.678008874
ENSG00000166228	PCBD1 subnetwork	0.175822552	0.678039324
ENSG00000079432	CIC subnetwork	0.176125606	0.678867977
ENSG00000102391	ENSG00000102391 subnetwork	0.17618975	0.678984505
MP:0010182	decreased susceptibility to weight gain	0.176120581	0.679042082
GO:0071216	cellular response to biotic stimulus	0.176764006	0.681244813

ENSG00000009954	BAZ1B subnetwork	0.177143706	0.682743363
GO:0035303	regulation of dephosphorylation	0.177504478	0.684051962
ENSG00000144029	MRPS5 subnetwork	0.177492333	0.684213437
GO:0016638	oxidoreductase activity, acting on the CH-NH2 group of c	0.177783705	0.685262431
ENSG00000119953	SMNDC1 subnetwork	0.177748818	0.685299807
MP:0001200	thick skin	0.17791008	0.685708368
ENSG00000158941	KIAA1967 subnetwork	0.178004043	0.685854264
ENSG00000126777	KTN1 subnetwork	0.177980055	0.685891773
ENSG00000156453	PCDH1 subnetwork	0.178118236	0.6861617
ENSG00000102054	RBBP7 subnetwork	0.17842485	0.686438809
ENSG00000101945	SUV39H1 subnetwork	0.178264227	0.686482759
ENSG00000171824	EXOSC10 subnetwork	0.178411367	0.686572925
ENSG00000181222	POLR2A subnetwork	0.178559664	0.686759438
ENSG00000178607	ERN1 subnetwork	0.178398177	0.686762272
ENSG00000198961	PJA2 subnetwork	0.178679601	0.687121212
ENSG00000105176	URI1 subnetwork	0.178786249	0.687427706
ENSG00000115756	HPCAL1 subnetwork	0.179092762	0.688329205
ENSG00000007312	CD79B subnetwork	0.17913451	0.688332416
ENSG00000160469	BRSK1 subnetwork	0.179184756	0.688390646
ENSG00000109111	SUPT6H subnetwork	0.179063427	0.68844989
ENSG00000075785	RAB7A subnetwork	0.179391034	0.688943894
ENSG00000169598	DFFB subnetwork	0.179900349	0.689837957
ENSG00000137764	MAP2K5 subnetwork	0.17981008	0.689846112
ENSG00000125954	CHURC1-FNTB subnetwork	0.179942814	0.689854476
GO:0061134	peptidase regulator activity	0.180184198	0.689882095
GO:2000145	regulation of cell motility	0.179784699	0.689925783
MP:0001177	atelectasis	0.179892218	0.689986264
ENSG00000177189	RPS6KA3 subnetwork	0.180170392	0.690043884
GO:0016763	transferase activity, transferring pentosyl groups	0.179767893	0.690046742
GO:0050732	negative regulation of peptidyl-tyrosine phosphorylation	0.180021651	0.69007686
ENSG00000132155	RAF1 subnetwork	0.18033347	0.690079474
ENSG00000106991	ENG subnetwork	0.180123696	0.690082305
ENSG00000205302	SNX2 subnetwork	0.18028726	0.690090461
ENSG00000115919	KYNU subnetwork	0.180113689	0.690244237
GO:0070723	response to cholesterol	0.18044878	0.690520548
ENSG00000110680	CALCA subnetwork	0.180543991	0.690580504
MP:0003641	small lung	0.18053849	0.690728568
MP:0001182	lung hemorrhage	0.180679261	0.69091158
ENSG00000067900	ROCK1 subnetwork	0.180868298	0.691625616
ENSG00000197461	PDGFA subnetwork	0.181339804	0.693296854
GO:0071222	cellular response to lipopolysaccharide	0.181748195	0.693797814
ENSG00000126602	TRAP1 subnetwork	0.181800795	0.693840481
ENSG00000138363	ATIC subnetwork	0.181552651	0.693886761
GO:0030118	clathrin coat	0.181725924	0.693919104
ENSG00000172780	RAB43 subnetwork	0.18165454	0.69393111
MP:0004255	abnormal spongiotrophoblast layer morphology	0.181644785	0.694093519
ENSG00000010017	RANBP9 subnetwork	0.18194351	0.694374659
MP:0001759	increased urine glucose level	0.181989726	0.694403494
ENSG00000173726	TOMM20 subnetwork	0.182096843	0.694582424
GO:0004857	enzyme inhibitor activity	0.18226197	0.694939989
ENSG00000114670	NEK11 subnetwork	0.182455158	0.694959128
GO:0016569	covalent chromatin modification	0.182482997	0.694974121
ENSG00000215692	ENSG00000215692 subnetwork	0.182429044	0.694998637
ENSG00000078579	FGF20 subnetwork	0.18224527	0.695020464

ENSG00000162734	PEA15 subnetwork	0.182549498	0.695125272
GO:0045822	negative regulation of heart contraction	0.182386263	0.695132261
ENSG00000180902	D2HGDH subnetwork	0.182429044	0.695188113
GO:0071636	positive regulation of transforming growth factor beta pr	0.182839179	0.696256466
ENSG00000120800	UTP20 subnetwork	0.183037107	0.696843537
ENSG00000120256	LRP11 subnetwork	0.183068666	0.6968716
MP:0000921	demyelination	0.182993653	0.696883506
GO:0045072	regulation of interferon-gamma biosynthetic process	0.183414147	0.697284085
GO:0070925	organelle assembly	0.183245454	0.69742997
GO:0090109	regulation of cell-substrate junction assembly	0.183413308	0.697473513
REACTOME_ENOS_ACTIVATION_	REACTOME_ENOS_ACTIVATION_AND_REGULATION	0.183566399	0.697529859
GO:0002576	platelet degranulation	0.183629052	0.697584803
GO:0051893	regulation of focal adhesion assembly	0.183413308	0.697663043
REACTOME_METABOLISM_OF_NI	REACTOME_METABOLISM_OF_NITRIC_OXIDE	0.183566399	0.697719251
ENSG00000120705	ETF1 subnetwork	0.183407543	0.697825496
ENSG00000111269	CREBL2 subnetwork	0.183378898	0.697974443
GO:0042809	vitamin D receptor binding	0.183765858	0.697978839
GO:0045766	positive regulation of angiogenesis	0.183836776	0.698060754
GO:0016570	histone modification	0.18399278	0.698427332
ENSG00000104823	ECH1 subnetwork	0.184123216	0.698997018
GO:0034698	response to gonadotropin stimulus	0.184236756	0.699011108
MP:0011096	complete embryonic lethality before somite formation	0.184227335	0.699173442
GO:0030131	clathrin adaptor complex	0.184329088	0.699309317
ENSG00000196782	MAML3 subnetwork	0.184463893	0.699323227
GO:0035770	ribonucleoprotein granule	0.184416486	0.699363661
GO:0010611	regulation of cardiac muscle hypertrophy	0.184917892	0.701014885
GO:0010888	negative regulation of lipid storage	0.185008616	0.701298701
ENSG00000111328	CDK2AP1 subnetwork	0.185220232	0.70208277
ENSG00000180871	CXCR2 subnetwork	0.185568247	0.703217086
ENSG00000091073	ENSG00000091073 subnetwork	0.18565512	0.703351351
GO:0042994	cytoplasmic sequestering of transcription factor	0.185549355	0.703353164
MP:0001078	abnormal phrenic nerve morphology	0.185967415	0.704471764
ENSG00000079785	DDX1 subnetwork	0.186081064	0.704808212
ENSG00000109046	WSB1 subnetwork	0.186336855	0.705357625
MP:0001783	decreased white adipose tissue amount	0.186296833	0.70537257
ENSG00000092841	MYL6 subnetwork	0.186406417	0.705423637
GO:0031330	negative regulation of cellular catabolic process	0.186276638	0.705482042
GO:0045940	positive regulation of steroid metabolic process	0.186712868	0.706051213
ENSG00000164707	SLC13A4 subnetwork	0.186694825	0.706187652
ENSG00000081800	SLC13A1 subnetwork	0.186694825	0.706378101
ENSG00000010030	ETV7 subnetwork	0.186864876	0.706467259
GO:0019059	initiation of viral infection	0.186677822	0.706487726
ENSG00000138448	ITGAV subnetwork	0.187057067	0.707246767
MP:0005334	abnormal fat pad morphology	0.187321898	0.707983306
ENSG00000068366	ACSL4 subnetwork	0.187416672	0.708019376
ENSG00000130985	UBA1 subnetwork	0.187398364	0.708115747
GO:0033081	regulation of T cell differentiation in thymus	0.187308602	0.708120119
MP:0011143	thick lung-associated mesenchyme	0.187654774	0.709187517
ENSG00000198730	CTR9 subnetwork	0.187754367	0.709290132
ENSG00000115221	ITGB6 subnetwork	0.187827361	0.709314516
ENSG00000112237	CCNC subnetwork	0.187727925	0.709359871
MP:0003204	decreased neuron apoptosis	0.18863396	0.712187584
ENSG00000157191	NECAP2 subnetwork	0.188867906	0.71268797
ENSG00000075539	FRYL subnetwork	0.188957058	0.712748256

MP:0001547	abnormal lipid level	0.188928033	0.712751678
GO:0060326	cell chemotaxis	0.188845829	0.712771958
ENSG00000144648	CCBP2 subnetwork	0.188837815	0.712936593
ENSG00000174405	LIG4 subnetwork	0.189219569	0.713710759
GO:0046849	bone remodeling	0.189468829	0.713763066
ENSG00000166582	CENPV subnetwork	0.189300128	0.713841202
MP:0001636	irregular heartbeat	0.189457828	0.713914209
ENSG00000198523	PLN subnetwork	0.189433253	0.714038616
GO:0061135	endopeptidase regulator activity	0.18983765	0.71414236
GO:0006694	steroid biosynthetic process	0.189885838	0.714178705
ENSG00000118058	MLL subnetwork	0.189682209	0.714318243
ENSG00000168274	HIST1H2AE subnetwork	0.189835237	0.714333512
ENSG00000167658	EEF2 subnetwork	0.189651362	0.714402465
ENSG00000172757	CFL1 subnetwork	0.189785331	0.714408141
ENSG00000137259	HIST1H2AB subnetwork	0.189835237	0.714524766
GO:0031929	TOR signaling cascade	0.190020622	0.714562717
GO:0002756	MyD88-independent toll-like receptor signaling pathway	0.190087483	0.714665775
ENSG00000125538	IL1B subnetwork	0.190440576	0.715944935
GO:0071706	tumor necrosis factor superfamily cytokine production	0.190551796	0.716194548
ENSG00000113368	LMNB1 subnetwork	0.191092846	0.716711123
GO:0032352	positive regulation of hormone metabolic process	0.191163221	0.71676
MP:0004187	cardia bifida	0.191064147	0.716848986
ENSG00000139719	VPS33A subnetwork	0.190987091	0.716964762
ENSG00000136931	NR5A1 subnetwork	0.190841636	0.716991718
GO:0019209	kinase activator activity	0.191057529	0.717026955
ENSG00000070831	CDC42 subnetwork	0.190925083	0.717120726
MP:0002310	decreased susceptibility to hepatic steatosis	0.190980558	0.717129506
ENSG00000196363	WDR5 subnetwork	0.191463593	0.717341502
MP:0008844	decreased subcutaneous adipose tissue amount	0.191336817	0.717395361
KEGG_RETINOL_METABOLISM	KEGG_RETINOL_METABOLISM	0.191461407	0.717505995
ENSG00000075884	ARHGAP15 subnetwork	0.191441727	0.717590618
GO:0090317	negative regulation of intracellular protein transport	0.191640641	0.717842876
ENSG00000100612	DHRS7 subnetwork	0.191813394	0.718477103
ENSG00000178921	PFAS subnetwork	0.191867641	0.718512111
GO:0003743	translation initiation factor activity	0.192053431	0.719026078
REACTOME_PECAM1_INTERACTIO	REACTOME_PECAM1_INTERACTIONS	0.192299216	0.719739292
ENSG00000136807	CDK9 subnetwork	0.19253942	0.720744681
KEGG_NON_HOMOLOGOUS_END	KEGG_NON_HOMOLOGOUS_END_JOINING	0.192624894	0.720911991
GO:0043189	H4/H2A histone acetyltransferase complex	0.192727544	0.721132376
MP:0001533	abnormal skeleton physiology	0.192825251	0.721365931
ENSG00000164070	HSPA4L subnetwork	0.192955195	0.721758767
MP:0000613	abnormal salivary gland morphology	0.193157671	0.722390438
ENSG00000164867	NOS3 subnetwork	0.193329979	0.72295539
MP:0001984	abnormal olfaction	0.19381135	0.723667462
ENSG00000075945	KIFAP3 subnetwork	0.193657321	0.723733086
ENSG00000188153	COL4A5 subnetwork	0.19375485	0.723779841
GO:0016835	carbon-oxygen lyase activity	0.193646769	0.723872081
GO:0008063	Toll signaling pathway	0.193590075	0.723904964
GO:0042116	macrophage activation	0.194247782	0.725145811
ENSG00000118785	SPP1 subnetwork	0.194660909	0.726444091
ENSG00000166592	RRAD subnetwork	0.194822027	0.726455797
ENSG00000139372	TDG subnetwork	0.194718841	0.726529801
MP:0002421	abnormal cell-mediated immunity	0.194648783	0.726610125
ENSG00000170860	LSM3 subnetwork	0.194814534	0.726621657

ENSG00000145901	TNIP1 subnetwork	0.19478151	0.726681674
GO:0045309	protein phosphorylated amino acid binding	0.194973406	0.72701773
MP:0001882	abnormal lactation	0.195253799	0.728346561
ENSG00000164111	ANXA5 subnetwork	0.195441499	0.729013488
GO:0035088	establishment or maintenance of apical/basal cell polarit	0.195778482	0.729271191
GO:0046823	negative regulation of nucleocytoplasmic transport	0.19554657	0.729309889
ENSG00000153774	CFDP1 subnetwork	0.195857295	0.729435058
GO:0061245	establishment or maintenance of bipolar cell polarity	0.195778482	0.729463814
GO:0042588	zymogen granule	0.19573111	0.729637949
MP:0006356	abnormal third branchial arch artery morphology	0.195776098	0.729656539
ENSG00000068971	PPP2R5B subnetwork	0.195695077	0.72975152
ENSG00000163528	CHCHD4 subnetwork	0.196100808	0.7304038
MP:0003917	increased kidney weight	0.196408531	0.731210443
MP:0005222	abnormal somite size	0.196400162	0.731390135
ENSG00000111049	MYF5 subnetwork	0.196369928	0.731437995
REACTOME_CHOLESTEROL_BIOSY	REACTOME_CHOLESTEROL_BIOSYNTHESIS	0.196816785	0.73197261
ENSG00000197386	HTT subnetwork	0.196908077	0.73209584
REACTOME_PEPTIDE_CHAIN_ELO	REACTOME_PEPTIDE_CHAIN_ELONGATION	0.196803044	0.73211275
GO:0010559	regulation of glycoprotein biosynthetic process	0.196782687	0.732252964
GO:0031434	mitogen-activated protein kinase kinase binding	0.196762078	0.732353716
ENSG00000071051	NCK2 subnetwork	0.196757867	0.732533615
GO:0004004	ATP-dependent RNA helicase activity	0.197094561	0.732578947
GO:0030216	keratinocyte differentiation	0.197082389	0.732719137
ENSG00000212664	ENSG00000212664 subnetwork	0.197255267	0.733017627
ENSG00000066136	NFYC subnetwork	0.197456976	0.733403472
REACTOME_METABOLISM_OF_LI	REACTOME_METABOLISM_OF_LIPIDS_AND_LIPOPROTEI	0.197580565	0.733438486
ENSG00000087074	PPP1R15A subnetwork	0.197722232	0.733565423
ENSG00000101246	ARFRP1 subnetwork	0.197573411	0.733578754
ENSG00000105509	HAS1 subnetwork	0.197692747	0.73370565
MP:0008392	decreased primordial germ cell number	0.197874683	0.733771008
GO:0005149	interleukin-1 receptor binding	0.197810358	0.733779879
ENSG00000158710	TAGLN2 subnetwork	0.197968813	0.733880284
GO:0033673	negative regulation of kinase activity	0.198169145	0.734233998
ENSG00000181031	RPH3AL subnetwork	0.198220342	0.734251246
GO:0072202	cell differentiation involved in metanephros developmer	0.198163929	0.73440042
ENSG00000211896	ENSG00000211896 subnetwork	0.198147968	0.734514436
ENSG00000185532	PRKG1 subnetwork	0.198416815	0.734805978
MP:0010025	decreased total body fat amount	0.198482869	0.734888598
ENSG00000009307	CSDE1 subnetwork	0.198734892	0.735757338
ENSG00000215021	PHB2 subnetwork	0.19915479	0.735874967
REACTOME_NRAGE_SIGNALS_DE	REACTOME_NRAGE_SIGNALS_DEATH_THROUGH_JNK	0.199329741	0.735964454
ENSG00000185697	MYBL1 subnetwork	0.199366895	0.735968121
ENSG00000115816	CEBPZ subnetwork	0.199239099	0.735983264
GO:0030334	regulation of cell migration	0.199067743	0.73599843
ENSG00000127948	POR subnetwork	0.199139782	0.736028257
GO:0050850	positive regulation of calcium-mediated signaling	0.199045622	0.736112565
GO:0001784	phosphotyrosine binding	0.199328886	0.736143791
ENSG00000110880	CORO1C subnetwork	0.198904278	0.736154048
ENSG00000099399	MAGEB2 subnetwork	0.19904198	0.736292223
ENSG00000102974	CTCF subnetwork	0.199040853	0.736485071
ENSG00000130758	MAP3K10 subnetwork	0.199849288	0.737594672
ENSG00000155438	MKI67IP subnetwork	0.199818285	0.737617555
KEGG_PORPHYRIN_AND_CHLORC	KEGG_PORPHYRIN_AND_CHLOROPHYLL_METABOLISM	0.200148008	0.738077224
ENSG00000185386	MAPK11 subnetwork	0.200069092	0.738188463

ENSG00000163882	POLR2H subnetwork	0.200223765	0.738223787
ENSG00000102226	USP11 subnetwork	0.200137775	0.738243737
KEGG_FOCAL_ADHESION	KEGG_FOCAL_ADHESION	0.200060716	0.738368146
GO:0004866	endopeptidase inhibitor activity	0.200608884	0.739674055
GO:0014743	regulation of muscle hypertrophy	0.200816523	0.740289364
ENSG00000129083	COPB1 subnetwork	0.200967479	0.74074798
GO:0018904	organic ether metabolic process	0.20102423	0.740815529
ENSG00000095002	MSH2 subnetwork	0.201156198	0.740898438
MP:0000932	absent notochord	0.201205097	0.740952877
GO:0051098	regulation of binding	0.201145543	0.741052357
MP:0002060	abnormal skin morphology	0.20145241	0.741788131
ENSG00000186810	CXCR3 subnetwork	0.201558235	0.741959407
GO:0051348	negative regulation of transferase activity	0.201918502	0.742344684
ENSG00000064313	TAF2 subnetwork	0.202098695	0.742428571
ENSG00000139921	TMX1 subnetwork	0.201900886	0.742485699
ENSG00000132196	HSD17B7 subnetwork	0.201855428	0.742522757
GO:0051341	regulation of oxidoreductase activity	0.202085534	0.742543518
ENSG00000197312	DDI2 subnetwork	0.201825449	0.742598855
ENSG00000061987	MON2 subnetwork	0.202059605	0.74264553
MP:0000428	abnormal craniofacial morphology	0.202542376	0.74407946
GO:0044447	axoneme part	0.202747615	0.744588632
REACTOME_G:PROTEIN_MEDIATE	REACTOME_G:PROTEIN_MEDIATED_EVENTS	0.202743325	0.744768951
MP:0003077	abnormal cell cycle	0.202854406	0.744849507
MP:0003503	decreased activity of thyroid	0.202940931	0.745032425
MP:0009504	abnormal mammary gland epithelium morphology	0.202994298	0.745111515
ENSG00000148468	FAM171A1 subnetwork	0.203180226	0.745580612
MP:0004229	abnormal embryonic erythropoiesis	0.20315838	0.745683173
GO:0031329	regulation of cellular catabolic process	0.203266704	0.745685411
REACTOME_APOPTOSIS	REACTOME_APOPTOSIS	0.203396463	0.745984456
MP:0004404	cochlear outer hair cell degeneration	0.203505165	0.746270396
GO:0006541	glutamine metabolic process	0.203856876	0.747476055
MP:0000351	increased cell proliferation	0.203839015	0.747591921
ENSG00000163586	FABP1 subnetwork	0.204072994	0.748033126
ENSG00000205246	RPSAP58 subnetwork	0.204387551	0.748474269
ENSG00000005156	LIG3 subnetwork	0.204286529	0.748499353
ENSG00000069702	TGFBR3 subnetwork	0.204363613	0.748525608
ENSG00000171311	EXOSC1 subnetwork	0.204855474	0.749728612
ENSG00000092439	TRPM7 subnetwork	0.204839555	0.749896587
GO:0050891	multicellular organismal water homeostasis	0.205024425	0.750129199
ENSG00000141738	GRB7 subnetwork	0.205304517	0.750878099
ENSG00000183684	ALYREF subnetwork	0.205288309	0.750955825
GO:0055037	recycling endosome	0.205873745	0.752541935
ENSG00000174953	DHX36 subnetwork	0.205866997	0.752684564
ENSG00000136149	ENSG00000136149 subnetwork	0.20584292	0.752711077
ENSG00000114209	PDCD10 subnetwork	0.206159829	0.753482972
ENSG00000008405	CRY1 subnetwork	0.206288769	0.753740005
MP:0002908	delayed wound healing	0.206395682	0.753971119
GO:0032452	histone demethylase activity	0.206791908	0.755349317
GO:0032740	positive regulation of interleukin-17 production	0.206832168	0.755373711
ENSG00000105821	DNAJC2 subnetwork	0.206934105	0.755591342
REACTOME_PLC:GAMMA1_SIGNA	REACTOME_PLC:GAMMA1_SIGNALLING	0.207007975	0.755731582
GO:0045073	regulation of chemokine biosynthetic process	0.207580523	0.756103829
MP:0003396	abnormal embryonic hematopoiesis	0.207528515	0.756169666
ENSG00000153208	MERTK subnetwork	0.207515343	0.75629982

KEGG_ABC_TRANSPORTERS	KEGG_ABC_TRANSPORTERS	0.2075122	0.756468621
GO:0035329	hippo signaling cascade	0.207504333	0.75663751
ENSG00000153071	DAB2 subnetwork	0.207460775	0.756664951
ENSG00000101182	PSMA7 subnetwork	0.207329871	0.756773114
GO:0043903	regulation of symbiosis, encompassing mutualism through	0.207444991	0.756808237
GO:0005507	copper ion binding	0.20743182	0.756951596
ENSG00000115289	PCGF1 subnetwork	0.208209934	0.758260534
REACTOME_N:GLYCAN_ANTENNAE	REACTOME_N:GLYCAN_ANTENNAE_ELONGATION	0.208329784	0.758528127
GO:0030856	regulation of epithelial cell differentiation	0.208701394	0.758679487
ENSG00000134982	APC subnetwork	0.208430226	0.758718541
ENSG00000100105	PATZ1 subnetwork	0.208540479	0.758803901
ENSG00000065000	AP3D1 subnetwork	0.208587091	0.758840133
GO:0006953	acute-phase response	0.208845952	0.758854434
MP:0009719	reduced cerebellar foliation	0.208692037	0.758861246
ENSG00000106244	PDAP1 subnetwork	0.208906438	0.758877786
ENSG00000213246	SUPT4H1 subnetwork	0.208509207	0.758883184
ENSG00000111300	NAA25 subnetwork	0.208673716	0.758940482
ENSG00000188986	COBRA1 subnetwork	0.208823323	0.758959241
MP:0009657	failure of chorioallantoic fusion	0.20902418	0.75908043
ENSG00000012983	MAP4K5 subnetwork	0.209259853	0.759769526
ENSG00000168148	HIST3H3 subnetwork	0.20939231	0.759854108
GO:0034130	toll-like receptor 1 signaling pathway	0.20945723	0.759889969
MP:0004007	abnormal lung vasculature morphology	0.209372863	0.760035842
ENSG00000110075	PPP6R3 subnetwork	0.209697632	0.760616526
GO:0005657	replication fork	0.209926864	0.761163683
ENSG00000137831	UACA subnetwork	0.210376672	0.762525562
ENSG00000160584	SIK3 subnetwork	0.210348996	0.762592687
ENSG00000011422	PLAUR subnetwork	0.210488617	0.762688474
ENSG00000056661	PCGF2 subnetwork	0.210869447	0.763796627
ENSG00000105329	TGFB1 subnetwork	0.211134467	0.76433495
GO:0030851	granulocyte differentiation	0.211110628	0.764466292
GO:0016032	viral reproduction	0.211082953	0.764546616
ENSG00000165733	BMS1 subnetwork	0.211475732	0.764644405
ENSG00000169895	SYAP1 subnetwork	0.211281119	0.76471414
MP:0000662	abnormal branching of the mammary ductal tree	0.211348731	0.764812452
ENSG00000076043	REXO2 subnetwork	0.211439979	0.764817649
ENSG00000138698	RAP1GDS1 subnetwork	0.211473188	0.764839368
ENSG00000114030	KPNA1 subnetwork	0.211422486	0.76494898
GO:0006919	activation of cysteine-type endopeptidase activity involving	0.2117998	0.765100586
ENSG00000183337	BCOR subnetwork	0.211761975	0.765142639
MP:0008439	abnormal cortical plate morphology	0.211752868	0.765299363
GO:0008060	ARF GTPase activator activity	0.211687989	0.765328746
REACTOME_CASPASE:MEDIATED	REACTOME_CASPASE:MEDIATED_CLEAVAGE_OF_CYTOSOL	0.211961955	0.765385594
ENSG00000196136	SERPINA3 subnetwork	0.211940713	0.76540224
GO:0045910	negative regulation of DNA recombination	0.212106517	0.765492241
ENSG00000197586	ENTPD6 subnetwork	0.212205855	0.765522502
ENSG00000136068	FLNB subnetwork	0.212160282	0.765539166
MP:0006354	abnormal fourth branchial arch artery morphology	0.212077875	0.76562341
MP:0001195	flaky skin	0.212345115	0.76581088
MP:0005620	abnormal muscle contractility	0.212390848	0.765832274
GO:0033630	positive regulation of cell adhesion mediated by integrins	0.212556914	0.765997969
MP:0001764	abnormal homeostasis	0.212488407	0.766031504
GO:0002711	positive regulation of T cell mediated immunity	0.212803253	0.766057839
GO:0031519	PcG protein complex	0.212526031	0.766078232

ENSG00000136950	ARPC5L subnetwork	0.213057077	0.766206285
GO:0048008	platelet-derived growth factor receptor signaling pathway	0.212789674	0.766214159
ENSG00000132467	UTP3 subnetwork	0.212728927	0.766218274
ENSG00000163166	IWS1 subnetwork	0.212925992	0.766345422
ENSG00000182533	CAV3 subnetwork	0.213041729	0.76634981
GO:0048662	negative regulation of smooth muscle cell proliferation	0.212720013	0.766362021
ENSG00000092621	PHGDH subnetwork	0.213018614	0.766442698
ENSG00000113712	CSNK1A1 subnetwork	0.213338405	0.766599139
MP:0004047	abnormal milk composition	0.213297405	0.766734229
GO:0042612	MHC class I protein complex	0.213336041	0.766767984
ENSG00000027075	PRKCH subnetwork	0.213769768	0.767155499
GO:0051489	regulation of filopodium assembly	0.213864851	0.767235279
ENSG00000135046	ANXA1 subnetwork	0.213617676	0.767261453
MP:0002989	small kidney	0.21366043	0.767282389
ENSG00000133107	TRPC4 subnetwork	0.213704671	0.767290665
MP:0001388	abnormal stationary movement	0.213748667	0.767311583
ENSG00000144674	GOLGA4 subnetwork	0.213570578	0.767316456
GO:0010632	regulation of epithelial cell migration	0.213946736	0.767344618
REACTOME_STEROID_HORMONE	REACTOME_STEROID_HORMONES	0.213847424	0.767353387
ENSG00000150630	VEGFC subnetwork	0.214087057	0.767630715
GO:0030139	endocytic vesicle	0.214148391	0.767727273
GO:0007159	leukocyte cell-cell adhesion	0.21455377	0.767809428
MP:0005292	improved glucose tolerance	0.214502483	0.767826525
ENSG00000170847	ENSG00000170847 subnetwork	0.21435874	0.767953571
GO:0010907	positive regulation of glucose metabolic process	0.214477306	0.767957125
MP:0000417	short hair	0.21426286	0.767975259
MP:0004784	abnormal anterior cardinal vein morphology	0.214467697	0.768138244
ENSG00000173534	ENSG00000173534 subnetwork	0.21435874	0.7681474
GO:0042578	phosphoric ester hydrolase activity	0.214701967	0.768258569
ENSG00000189060	H1FO subnetwork	0.214933252	0.768858655
MP:0005582	increased renin activity	0.215084269	0.769282116
ENSG00000146535	GNA12 subnetwork	0.215227498	0.769629816
GO:0017069	snRNA binding	0.215294988	0.769725579
GO:0022612	gland morphogenesis	0.215347508	0.769758369
ENSG00000183558	HIST2H2AA3 subnetwork	0.215476783	0.769781187
ENSG00000034152	MAP2K3 subnetwork	0.215391358	0.769791142
ENSG00000203812	HIST2H2AA4 subnetwork	0.215476783	0.769974843
MP:0004701	decreased circulating insulin-like growth factor I level	0.215649405	0.770266533
MP:0011260	abnormal head mesenchyme morphology	0.215772863	0.77036944
MP:0004567	decreased myocardial fiber number	0.215739398	0.770462544
ENSG00000143575	HAX1 subnetwork	0.21611131	0.771019588
ENSG00000143256	PFDN2 subnetwork	0.216166109	0.771039418
ENSG00000134313	KIDINS220 subnetwork	0.216028966	0.771067839
GO:0019902	phosphatase binding	0.216082818	0.771112786
ENSG00000147883	CDKN2B subnetwork	0.216333262	0.771536145
ENSG00000126785	RHOJ subnetwork	0.216526275	0.771595184
ENSG00000185621	LMLN subnetwork	0.216482346	0.771613146
ENSG00000084073	ZMPSTE24 subnetwork	0.216441939	0.771718946
ENSG00000136875	PRPF4 subnetwork	0.216739104	0.772191575
GO:0070232	regulation of T cell apoptotic process	0.217191709	0.772734101
GO:0071496	cellular response to external stimulus	0.217004328	0.772794486
ENSG00000047315	POLR2B subnetwork	0.217191404	0.772915101
ENSG00000160075	SSU72 subnetwork	0.216976255	0.772950614
ENSG00000147669	POLR2K subnetwork	0.217165487	0.773033567

GO:0032732	positive regulation of interleukin-1 production	0.217120674	0.773089451
ENSG00000125740	FOSB subnetwork	0.217480405	0.773373373
ENSG00000122641	INHBA subnetwork	0.21743549	0.773416771
REACTOME_HORMONE:SENSITIVE	REACTOME_HORMONE:SENSITIVE_LIPASE_HSL:MEDIATI	0.217548936	0.773442582
MP:0011506	glomerular crescent	0.217739332	0.773830958
ENSG00000067533	RRP15 subnetwork	0.217722819	0.773949475
GO:0030544	Hsp70 protein binding	0.217849075	0.7740375
ENSG00000182255	KCNA4 subnetwork	0.218556848	0.776593352
ENSG00000110107	PRPF19 subnetwork	0.218603877	0.776636682
MP:0001426	polydipsia	0.21881244	0.776697454
GO:0016307	phosphatidylinositol phosphate kinase activity	0.218712444	0.776760739
ENSG00000206156	ENSG00000206156 subnetwork	0.2187878	0.776803995
GO:0033674	positive regulation of kinase activity	0.218711236	0.776954784
MP:0002463	abnormal neutrophil physiology	0.2190646	0.777439481
ENSG00000085231	TAF9 subnetwork	0.219143233	0.777507485
GO:0032354	response to follicle-stimulating hormone stimulus	0.219187239	0.777662759
ENSG00000139239	ENSG00000139239 subnetwork	0.219430674	0.777928714
ENSG00000132698	RAB25 subnetwork	0.219547341	0.77797708
ENSG00000090060	PAPOLA subnetwork	0.219391717	0.77798554
GO:0046364	monosaccharide biosynthetic process	0.219381966	0.778154613
ENSG00000116717	GADD45A subnetwork	0.219543213	0.778158485
ENSG00000165409	TSHR subnetwork	0.219756815	0.778237052
MP:0005597	decreased susceptibility to type I hypersensitivity reactio	0.219831997	0.778304705
ENSG00000130669	PAK4 subnetwork	0.219713831	0.778306351
GO:0001541	ovarian follicle development	0.219893434	0.778484321
GO:0045740	positive regulation of DNA replication	0.219965475	0.778514556
ENSG00000172943	PHF8 subnetwork	0.220117065	0.778662024
MP:0008280	male germ cell apoptosis	0.220089502	0.778768657
MP:0006262	testis tumor	0.220192477	0.778816509
ENSG00000165309	ARMC3 subnetwork	0.220735745	0.778876209
ENSG00000120688	WBP4 subnetwork	0.220675275	0.778933002
ENSG00000113070	HBEGF subnetwork	0.220634685	0.778965004
ENSG00000150459	SAP18 subnetwork	0.220373458	0.779144917
MP:0010868	increased bone trabecula number	0.220632416	0.779145978
MP:0004028	chromosome breakage	0.220594998	0.779215297
GO:0016571	histone methylation	0.220462848	0.779286779
MP:0004851	increased testis weight	0.220589425	0.779359165
ENSG00000169696	ASPSCR1 subnetwork	0.221006459	0.779394991
MP:0005438	abnormal glycogen homeostasis	0.220578707	0.779515528
MP:0003983	decreased cholesterol level	0.220986784	0.77952629
ENSG00000036672	USP2 subnetwork	0.221150754	0.779615861
ENSG00000139567	ACVRL1 subnetwork	0.221115299	0.779697571
GO:0044452	nucleolar part	0.221387998	0.780064388
GO:0045834	positive regulation of lipid metabolic process	0.221374675	0.780208075
ENSG00000128052	KDR subnetwork	0.221362212	0.780339445
ENSG00000070423	RNF126 subnetwork	0.221543298	0.780391186
ENSG00000183283	DAZAP2 subnetwork	0.221748073	0.781076733
ENSG00000127947	PTPN12 subnetwork	0.221827517	0.781229894
MP:0005344	increased circulating bilirubin level	0.221894358	0.781284018
ENSG00000134697	GNL2 subnetwork	0.222016516	0.781367458
ENSG00000103365	GGA2 subnetwork	0.221998747	0.781535988
ENSG00000163349	HIPK1 subnetwork	0.222265515	0.782254078
GO:0042056	chemoattractant activity	0.222334174	0.782394366
ENSG00000117713	ARID1A subnetwork	0.222255163	0.782435105

ENSG00000165458	INPPL1 subnetwork	0.222642314	0.782859965
ENSG00000104312	RIPK2 subnetwork	0.222776214	0.783012346
GO:0030728	ovulation	0.222629644	0.783028656
MP:0004852	decreased testis weight	0.223089077	0.784020237
MP:0010254	nuclear cataracts	0.223069367	0.784127376
ENSG00000075089	ACTR6 subnetwork	0.223140485	0.784221564
GO:0043022	ribosome binding	0.223453072	0.785104809
GO:0005548	phospholipid transporter activity	0.223426087	0.785125802
ENSG00000138592	USP8 subnetwork	0.223645722	0.785564596
ENSG00000138081	FBXO11 subnetwork	0.223736896	0.785777668
MP:0003085	abnormal egg cylinder morphology	0.224079658	0.786511456
ENSG00000148773	MKI67 subnetwork	0.224043367	0.786594381
ENSG00000197045	GMFB subnetwork	0.224185149	0.786748768
GO:0051225	spindle assembly	0.224668723	0.78688867
MP:0009434	paraparesis	0.224260129	0.786949027
ENSG00000116489	CAPZA1 subnetwork	0.224658453	0.787020649
ENSG00000132522	GPS2 subnetwork	0.224622233	0.787091222
GO:0051701	interaction with host	0.224603562	0.787260207
MP:0004696	abnormal thyroid follicle morphology	0.224562902	0.787269373
ENSG00000197043	ANXA6 subnetwork	0.224536788	0.787340059
GO:0000981	sequence-specific DNA binding RNA polymerase II transc	0.224473181	0.787349249
ENSG00000184371	CSF1 subnetwork	0.224450423	0.787518464
ENSG00000168522	FNTA subnetwork	0.225036238	0.788058968
GO:0010573	vascular endothelial growth factor production	0.225262687	0.788555992
GO:0002709	regulation of T cell mediated immunity	0.225324372	0.788558802
GO:0010574	regulation of vascular endothelial growth factor producti	0.225262687	0.788749693
GO:0008094	DNA-dependent ATPase activity	0.225442153	0.788905253
ENSG00000100448	CTSG subnetwork	0.225980281	0.78922097
ENSG00000083857	FAT1 subnetwork	0.225671927	0.789266438
ENSG00000130429	ARPC1B subnetwork	0.225630862	0.789349693
REACTOME_LIPID_DIGESTION_M	REACTOME_LIPID_DIGESTION_MOBILIZATION_AND_TR	0.226080876	0.789358315
KEGG_STEROID_BIOSYNTHESIS	KEGG_STEROID_BIOSYNTHESIS	0.22597726	0.789402107
GO:0005844	polysome	0.22593286	0.789460784
GO:0035162	embryonic hemopoiesis	0.225876204	0.789602746
ENSG00000197498	RPF2 subnetwork	0.225922271	0.789629811
ENSG00000168092	PAFAH1B2 subnetwork	0.225868773	0.789747363
ENSG00000090382	LYZ subnetwork	0.226244467	0.789777179
ENSG00000104221	BRF2 subnetwork	0.226317811	0.78996328
ENSG00000185722	ANKFY1 subnetwork	0.226378801	0.789965737
ENSG00000139436	GIT2 subnetwork	0.226889714	0.790752504
ENSG00000141367	CLTC subnetwork	0.226819341	0.790796871
ENSG00000108510	MED13 subnetwork	0.226859685	0.790823558
ENSG00000104960	PTOV1 subnetwork	0.226802147	0.790953545
ENSG00000031823	RANBP3 subnetwork	0.226699644	0.791020308
MP:0001126	abnormal ovary morphology	0.226797078	0.791122524
ENSG00000124160	NCOA5 subnetwork	0.226786134	0.7912182
ENSG00000120438	TCP1 subnetwork	0.227086293	0.791316561
ENSG00000113048	MRPS27 subnetwork	0.227237346	0.791442871
GO:0000460	maturation of 5.8S rRNA	0.227218385	0.791599512
GO:0043414	macromolecule methylation	0.227346424	0.791615816
ENSG00000152291	TGOLN2 subnetwork	0.227471779	0.791971694
GO:0050880	regulation of blood vessel size	0.227773496	0.793083679
KEGG_LYSINE_DEGRADATION	KEGG_LYSINE_DEGRADATION	0.228202649	0.793919084
REACTOME_EUKARYOTIC_TRANSI	REACTOME_EUKARYOTIC_TRANSLATION_TERMINATION	0.228198505	0.79407606

GO:0006970	response to osmotic stress	0.228106729	0.794146341
GO:0051403	stress-activated MAPK cascade	0.228187391	0.794233114
obsolete_molecular_function	obsolete_molecular_function	0.228308233	0.794273879
ENSG00000099864	PALM subnetwork	0.228479898	0.79462981
GO:0030119	AP-type membrane coat adaptor complex	0.228658084	0.794635036
GO:0032652	regulation of interleukin-1 production	0.228447434	0.794640682
ENSG00000131018	SYNE1 subnetwork	0.228546716	0.794704164
ENSG00000102978	POLR2C subnetwork	0.228638856	0.794755415
ENSG00000196700	ZNF512B subnetwork	0.228594062	0.794778481
MP:0008585	absent photoreceptor outer segment	0.228825927	0.795183654
REACTOME_HOST_INTERACTIONS	REACTOME_HOST_INTERACTIONS_OF_HIV_FACTORS	0.228880238	0.795184825
ENSG00000005844	ITGAL subnetwork	0.229122895	0.795818138
ENSG00000104375	STK3 subnetwork	0.229322675	0.796451142
GO:0042310	vasoconstriction	0.229798976	0.798226002
GO:0006730	one-carbon metabolic process	0.229986565	0.798760933
ENSG00000106367	AP1S1 subnetwork	0.230022887	0.798846247
ENSG00000114503	NCBP2 subnetwork	0.230176587	0.798907502
ENSG00000103942	HOMER2 subnetwork	0.230501572	0.79900582
MP:0002656	abnormal keratinocyte differentiation	0.230148522	0.799028655
ENSG00000140694	PARN subnetwork	0.230352718	0.79910216
ENSG00000100346	CACNA1I subnetwork	0.230482463	0.799138976
ENSG00000105698	USF2 subnetwork	0.230442015	0.799199418
ENSG00000166908	PIP4K2C subnetwork	0.230300661	0.799235437
ENSG00000166947	EPB42 subnetwork	0.231160908	0.801272727
ENSG00000132470	ITGB4 subnetwork	0.2312524	0.80140572
GO:0035264	multicellular organism growth	0.231386209	0.801526163
ENSG00000100324	TAB1 subnetwork	0.231329261	0.801526533
GO:0071396	cellular response to lipid	0.231511932	0.801562122
ENSG00000089737	DDX24 subnetwork	0.232093306	0.802224371
ENSG00000161513	FDXR subnetwork	0.232031872	0.802273277
ENSG00000134058	CDK7 subnetwork	0.23202894	0.802443154
ENSG00000179348	GATA2 subnetwork	0.231805265	0.80248184
ENSG00000140564	FURIN subnetwork	0.232256246	0.802525985
ENSG00000158290	CUL4B subnetwork	0.231992432	0.802552625
ENSG00000138101	DTNB subnetwork	0.231947927	0.802589545
ENSG00000196557	CACNA1H subnetwork	0.231940507	0.802771726
ENSG00000106541	AGR2 subnetwork	0.232534726	0.803262446
GO:0004707	MAP kinase activity	0.23269856	0.803344603
ENSG00000179094	PER1 subnetwork	0.232689959	0.803429952
ENSG00000101161	PRPF6 subnetwork	0.232683181	0.803587823
ENSG00000204434	ENSG00000204434 subnetwork	0.23283171	0.803730082
GO:0005227	calcium activated cation channel activity	0.23297162	0.803823884
REACTOME_INTEGRIN_CELL_SURFACE	REACTOME_INTEGRIN_CELL_SURFACE_INTERACTIONS	0.232948732	0.803957529
ENSG00000189319	FAM53B subnetwork	0.232916358	0.803982621
ENSG00000143942	CHAC2 subnetwork	0.233186517	0.804413893
MP:0001876	decreased inflammatory response	0.233282667	0.804702194
ENSG00000198925	ATG9A subnetwork	0.233367971	0.804881871
ENSG00000100902	PSMA6 subnetwork	0.234041729	0.807192771
ENSG00000164104	HMGB2 subnetwork	0.234012832	0.807206556
KEGG_GLYCOSAMINOGLYCAN_BIOSYNTHESIS	KEGG_GLYCOSAMINOGLYCAN_BIOSYNTHESIS_KERATAN	0.234385902	0.807861787
ENSG00000104973	MED25 subnetwork	0.234460859	0.807883967
ENSG00000185736	ADARB2 subnetwork	0.234283151	0.807889665
REACTOME_RAP1_SIGNALLING	REACTOME_RAP1_SIGNALLING	0.234379432	0.808044316
MP:0003866	abnormal defecation	0.234709986	0.808880866

KEGG_COMPLEMENT_AND_COAGULATION_CASCADES	0.234958244	0.809151034	
ENSG00000163909	HEYL subnetwork	0.234916618	0.809225403
ENSG00000165782	TMEM55B subnetwork	0.235031316	0.809232989
MP:0001596	hypotension	0.234898232	0.809323869
ENSG00000104812	GYS1 subnetwork	0.235424517	0.810564904
ENSG00000124145	SDC4 subnetwork	0.235553153	0.810838741
ENSG00000137561	TTPA subnetwork	0.235941688	0.811965401
GO:0002714	positive regulation of B cell mediated immunity	0.236240784	0.811987041
GO:0002891	positive regulation of immunoglobulin mediated immunity	0.236240784	0.812181949
GO:0090066	regulation of anatomical structure size	0.236197648	0.812256903
GO:0043030	regulation of macrophage activation	0.236147043	0.81244295
ENSG00000147162	OGT subnetwork	0.236197156	0.812451969
GO:0034695	response to prostaglandin E stimulus	0.236532826	0.812532982
ENSG00000092203	TOX4 subnetwork	0.236478162	0.812607965
ENSG00000141759	TXNL4A subnetwork	0.236622949	0.812625899
GO:0004697	protein kinase C activity	0.236697249	0.812754735
GO:0048536	spleen development	0.237003814	0.813260661
GO:0016585	chromatin remodeling complex	0.236977366	0.813287803
ENSG00000130159	ECSIT subnetwork	0.236942723	0.813410834
ENSG00000182606	TRAK1 subnetwork	0.23712862	0.81360479
GO:0017017	MAP kinase tyrosine/serine/threonine phosphatase activity	0.237463328	0.814523467
GO:0051010	microtubule plus-end binding	0.237506143	0.814555901
MP:0005281	increased fatty acid level	0.237820774	0.815557683
GO:0071371	cellular response to gonadotropin stimulus	0.237950609	0.815865039
MP:0008071	absent B cells	0.238022027	0.815921053
MP:0002048	increased lung adenoma incidence	0.238119648	0.816132504
MP:0000460	mandible hypoplasia	0.238297413	0.816618843
MP:0005439	decreased glycogen level	0.238448948	0.81667065
ENSG00000198478	SH3BGR1 subnetwork	0.238412142	0.816746354
GO:0031091	platelet alpha granule	0.238678587	0.817359618
ENSG00000184216	IRAK1 subnetwork	0.238735811	0.817462972
MP:0003964	abnormal noradrenaline level	0.238800062	0.817482684
ENSG00000104872	PIH1D1 subnetwork	0.238876787	0.817562082
ENSG000000005810	MYCBP2 subnetwork	0.23909391	0.817628817
ENSG00000103769	RAB11A subnetwork	0.239054257	0.817680744
ENSG00000173575	CHD2 subnetwork	0.238969451	0.817689186
GO:0035150	regulation of tube size	0.239021058	0.817732697
MP:0005217	abnormal pancreatic beta cell morphology	0.239320994	0.818280467
GO:0016575	histone deacetylation	0.239513756	0.818688915
ENSG00000124571	XPO5 subnetwork	0.239473328	0.81875298
GO:0060135	maternal process involved in female pregnancy	0.240084912	0.819830872
GO:0000302	response to reactive oxygen species	0.240053813	0.819907076
GO:0016741	transferase activity, transferring one-carbon groups	0.240034081	0.820030982
ENSG00000129988	LBP subnetwork	0.240413836	0.820180866
ENSG00000039537	C6 subnetwork	0.240364252	0.820257082
GO:0014911	positive regulation of smooth muscle cell migration	0.24032596	0.820357143
ENSG00000188313	PLSCR1 subnetwork	0.240833261	0.820401616
GO:0006479	protein methylation	0.240670375	0.820439952
GO:0002347	response to tumor cell	0.240307039	0.820445344
MP:0001695	abnormal gastrulation	0.240726826	0.820482644
MP:0011100	complete preweaning lethality	0.24057677	0.82050916
MP:0003542	abnormal vascular endothelial cell development	0.24082883	0.82058474
GO:0008213	protein alkylation	0.240670375	0.820635109
ENSG00000114346	ECT2 subnetwork	0.240993511	0.82071751

ENSG00000125630	POLR1B subnetwork	0.241048781	0.820771971
MP:0002168	other aberrant phenotype	0.241504452	0.821777831
ENSG00000068781	STON1-GTF2A1L subnetwork	0.241584454	0.821879449
MP:0004933	abnormal epididymis epithelium morphology	0.241408035	0.82190691
MP:0000230	abnormal systemic arterial blood pressure	0.241503852	0.821961064
ENSG00000150093	ITGB1 subnetwork	0.242275896	0.822059172
ENSG00000119772	DNMT3A subnetwork	0.242210367	0.822064394
MP:0000172	abnormal bone marrow cell number	0.242177252	0.822105139
GO:0071564	npBAF complex	0.242171656	0.822276172
ENSG00000079385	CEACAM1 subnetwork	0.242124906	0.82228145
MP:0008563	decreased interferon-alpha secretion	0.241778574	0.82232503
ENSG00000204898	ENSG00000204898 subnetwork	0.242124906	0.822476303
GO:0034762	regulation of transmembrane transport	0.242014554	0.8226055
ENSG00000141867	BRD4 subnetwork	0.242111635	0.822611993
ENSG00000161270	NPHS1 subnetwork	0.241887674	0.822628083
GO:0009982	pseudouridine synthase activity	0.241983588	0.822670145
GO:0019722	calcium-mediated signaling	0.242612809	0.822847682
GO:0045862	positive regulation of proteolysis	0.242591278	0.822983203
ENSG00000123838	C4BPA subnetwork	0.242690544	0.82299598
ENSG00000116251	RPL22 subnetwork	0.242547248	0.823000473
GO:0016791	phosphatase activity	0.242944098	0.823717797
GO:0016887	ATPase activity	0.24299541	0.823771267
GO:0000118	histone deacetylase complex	0.242924025	0.823829787
MP:0000440	domed cranium	0.243871081	0.824781994
ENSG00000148942	SLC5A12 subnetwork	0.243830649	0.824823197
GO:0006446	regulation of translational initiation	0.243374291	0.824828727
GO:0070423	nucleotide-binding oligomerization domain containing si	0.24382204	0.824970526
GO:0035872	nucleotide-binding domain, leucine rich repeat containin	0.24382204	0.825165094
MP:0001570	abnormal circulating enzyme level	0.243552721	0.825236183
ENSG00000159186	ENSG00000159186 subnetwork	0.244061978	0.825329877
ENSG00000117245	KIF17 subnetwork	0.243720478	0.825348124
GO:0003018	vascular process in circulatory system	0.243781656	0.825353941
GO:0002753	cytoplasmic pattern recognition receptor signaling pathw	0.24382204	0.825359755
MP:0002665	decreased circulating corticosterone level	0.243646475	0.825395514
GO:0071479	cellular response to ionizing radiation	0.243694664	0.825413126
GO:0008278	cohesin complex	0.244204085	0.825583039
MP:0002026	leukemia	0.244350473	0.82589496
ENSG00000024422	EHD2 subnetwork	0.24476301	0.827024482
GO:0001954	positive regulation of cell-matrix adhesion	0.244817378	0.827053424
ENSG00000039319	ZFYVE16 subnetwork	0.24475927	0.827207441
ENSG00000136754	ABI1 subnetwork	0.245352478	0.827661575
ENSG00000139842	CUL4A subnetwork	0.245048647	0.827705882
ENSG00000182541	LIMK2 subnetwork	0.245272729	0.827709852
REACTOME_SIGNALING_BY_NOTCH	REACTOME_SIGNALING_BY_NOTCH	0.245328812	0.827715092
ENSG00000075426	FOSL2 subnetwork	0.245127703	0.827769936
ENSG00000105369	CD79A subnetwork	0.245219932	0.82784572
GO:0008209	androgen metabolic process	0.245656054	0.828064819
GO:0010676	positive regulation of cellular carbohydrate metabolic pr	0.24564806	0.828200611
ENSG00000147955	SIGMAR1 subnetwork	0.245740047	0.828304766
MP:0008294	abnormal zona fasciculata morphology	0.245792295	0.82834507
GO:0001952	regulation of cell-matrix adhesion	0.245841661	0.828361887
GO:0045913	positive regulation of carbohydrate metabolic process	0.24564806	0.828395207
ENSG00000171681	ATF7IP subnetwork	0.246072984	0.828817734
ENSG00000205250	E2F4 subnetwork	0.246066431	0.829012201

ENSG00000102554	KLF5 subnetwork	0.246293712	0.829420732
ENSG00000112029	FBXO5 subnetwork	0.246750398	0.830506092
ENSG00000206407	ENSG00000206407 subnetwork	0.246710854	0.830524959
ENSG00000206489	PPP1R10 subnetwork	0.246710854	0.830719644
ENSG00000204569	PPP1R10 subnetwork	0.246710854	0.83091442
ENSG00000185129	PURA subnetwork	0.247074472	0.83102318
REACTOME_PERK_REGULATED_G	REACTOME_PERK_REGULATED_GENE_EXPRESSION	0.246981641	0.831026001
MP:0011368	increased kidney apoptosis	0.247150005	0.831086142
ENSG00000180573	HIST1H2AC subnetwork	0.247055881	0.831135831
GO:0005516	calmodulin binding	0.24727174	0.831277791
ENSG00000111640	GAPDH subnetwork	0.24752803	0.83152479
GO:0016604	nuclear body	0.24749432	0.831567251
GO:0045638	negative regulation of myeloid cell differentiation	0.247611762	0.831599252
ENSG00000011600	TYROBP subnetwork	0.247453247	0.831609733
GO:0050434	positive regulation of viral transcription	0.247717056	0.831767181
ENSG00000130119	GNL3L subnetwork	0.247809408	0.831876607
GO:0046854	phosphatidylinositol phosphorylation	0.248163585	0.832721963
MP:0001239	abnormal epidermis stratum granulosum morphology	0.248498537	0.83302217
MP:0001261	obese	0.24860386	0.833030091
GO:0010922	positive regulation of phosphatase activity	0.248332556	0.83306866
GO:0071219	cellular response to molecule of bacterial origin	0.248292254	0.833111423
ENSG00000047849	MAP4 subnetwork	0.248486834	0.833158263
ENSG00000149177	PTPRJ subnetwork	0.248590589	0.833177788
GO:0046886	positive regulation of hormone biosynthetic process	0.248484104	0.833329442
ENSG00000173876	TUBB8 subnetwork	0.248789564	0.833523787
ENSG00000103490	PYCARD subnetwork	0.248844784	0.833585917
GO:0072332	signal transduction by p53 class mediator resulting in ind	0.249247037	0.834494408
GO:0004954	prostanoid receptor activity	0.249339381	0.834524918
ENSG00000198836	OPA1 subnetwork	0.249205252	0.834525752
MP:0008111	abnormal granulocyte differentiation	0.249183293	0.834638695
GO:0004953	icosanoid receptor activity	0.249339381	0.834719311
ENSG00000197822	OCLN subnetwork	0.249555683	0.834881285
ENSG00000079841	RIMS1 subnetwork	0.249912069	0.834910486
ENSG00000162614	NEXN subnetwork	0.249555072	0.835075669
ENSG00000167548	MLL2 subnetwork	0.249907063	0.835104651
GO:0045907	positive regulation of vasoconstriction	0.249797088	0.835120987
MP:0002654	spongiform encephalopathy	0.249743489	0.835210612
ENSG00000100453	GZMB subnetwork	0.249896885	0.835287276
ENSG00000169057	MECP2 subnetwork	0.250217518	0.835681079
ENSG00000181690	PLAG1 subnetwork	0.250495392	0.835744137
ENSG00000111725	PRKAB1 subnetwork	0.250551058	0.835747447
ENSG00000181218	HIST3H2A subnetwork	0.250479873	0.835845332
ENSG00000214826	ENSG00000214826 subnetwork	0.250385552	0.835873606
ENSG00000101306	MYLK2 subnetwork	0.250437449	0.835876887
ENSG00000111788	ENSG00000111788 subnetwork	0.250385552	0.83606786
ENSG00000070061	IKBKAP subnetwork	0.250707102	0.836307728
ENSG00000071894	CPSF1 subnetwork	0.250821983	0.836461717
ENSG00000057468	MSH4 subnetwork	0.250986671	0.836471134
MP:0005584	abnormal enzyme/coenzyme activity	0.250966388	0.836583952
GO:0071383	cellular response to steroid hormone stimulus	0.250943191	0.836720019
GO:0050853	B cell receptor signaling pathway	0.251780162	0.837994906
MP:0011204	abnormal visceral yolk sac blood island morphology	0.251731731	0.838026864
GO:0010181	FMN binding	0.251704331	0.838163076
ENSG00000137710	RDX subnetwork	0.251600812	0.838180765

GO:0035267	NuA4 histone acetyltransferase complex	0.251674772	0.838276182
MP:0001713	decreased trophoblast giant cell number	0.251594818	0.838351878
MP:0001786	skin edema	0.252147128	0.838775746
GO:0002675	positive regulation of acute inflammatory response	0.252104111	0.838819444
MP:0005065	abnormal neutrophil morphology	0.252743977	0.840654638
ENSG00000100345	MYH9 subnetwork	0.252716894	0.840745025
MP:0003406	failure of zygotic cell division	0.252851937	0.84093432
ENSG00000188486	H2AFX subnetwork	0.253011591	0.841375723
ENSG00000127445	PIN1 subnetwork	0.253041709	0.841377716
GO:0042177	negative regulation of protein catabolic process	0.253163217	0.841622371
GO:0060759	regulation of response to cytokine stimulus	0.253430536	0.842421442
ENSG00000131746	TNS4 subnetwork	0.253934485	0.842893401
ENSG00000125107	CNOT1 subnetwork	0.253672706	0.842966043
ENSG00000135097	MSI1 subnetwork	0.253894105	0.842995615
ENSG00000123737	EXOSC9 subnetwork	0.254036612	0.843091119
ENSG00000004700	RECQL subnetwork	0.253814066	0.843107827
GO:0071826	ribonucleoprotein complex subunit organization	0.253771186	0.843140878
GO:0040029	regulation of gene expression, epigenetic	0.253882992	0.843144044
GO:0002824	positive regulation of adaptive immune response based on antigen presentation	0.254138503	0.843231089
ENSG00000171566	PLRG1 subnetwork	0.254529486	0.844258704
GO:0006997	nucleus organization	0.254730641	0.844423963
GO:0032355	response to estradiol stimulus	0.254707269	0.844526389
GO:0003993	acid phosphatase activity	0.254701006	0.844686491
ENSG00000180228	PRKRA subnetwork	0.254892085	0.844759272
ENSG00000106344	RBM28 subnetwork	0.255120988	0.845244127
ENSG00000044574	HSPA5 subnetwork	0.255198703	0.845371863
ENSG00000101680	LAMA1 subnetwork	0.255440722	0.84554763
GO:0022618	ribonucleoprotein complex assembly	0.255346644	0.845614641
REACTOME_PLG_BETA_MEDIATED_EVENTS	REACTOME_PLG_BETA_MEDIATED_EVENTS	0.255521021	0.845617667
GO:0043021	ribonucleoprotein complex binding	0.255594396	0.845699172
MP:0002413	abnormal megakaryocyte progenitor cell morphology	0.255433459	0.845742232
ENSG00000118898	PPL subnetwork	0.255907491	0.846608416
ENSG00000185634	SHC4 subnetwork	0.256107431	0.847046656
GO:0042992	negative regulation of transcription factor import into nucleus	0.256068055	0.847114943
ENSG00000101412	E2F1 subnetwork	0.25627375	0.847277739
ENSG00000130193	C8orf55 subnetwork	0.256319476	0.847278365
ENSG00000105281	SLC1A5 subnetwork	0.256231539	0.847300092
GO:0019903	protein phosphatase binding	0.256471277	0.847600459
ENSG00000139726	DENR subnetwork	0.256731625	0.847808628
ENSG00000097007	ABL1 subnetwork	0.25669054	0.847888455
GO:0045684	positive regulation of epidermis development	0.256673378	0.847979798
GO:0000794	condensed nuclear chromosome	0.256847512	0.848118835
GO:0001916	positive regulation of T cell mediated cytotoxicity	0.256963701	0.848142628
GO:0034637	cellular carbohydrate biosynthetic process	0.256952963	0.84831422
ENSG00000215694	ENSG00000215694 subnetwork	0.25729185	0.849049038
GO:0018210	peptidyl-threonine modification	0.257355338	0.849072165
ENSG00000168393	DTYMK subnetwork	0.25729185	0.84924364
ENSG00000069424	KCNAB2 subnetwork	0.257591461	0.849358974
MP:0008658	decreased interleukin-1 beta secretion	0.257290097	0.849438331
ENSG00000133121	STARD13 subnetwork	0.257574077	0.849484772
REACTOME_PROSTANOID_METABOLISM	REACTOME_PROSTANOID_METABOLISM	0.257539393	0.849507558
MP:0001943	abnormal respiration	0.257717535	0.849553674
REACTOME_BETA:CATENIN_PHOSPHORYLATION_CASCA	REACTOME_BETA:CATENIN_PHOSPHORYLATION_CASCA	0.257830964	0.849576756
ENSG00000188739	RBM34 subnetwork	0.257802148	0.849691076

GO:0030414	peptidase inhibitor activity	0.258006849	0.849942831
GO:0043401	steroid hormone mediated signaling pathway	0.257978424	0.850068618
GO:0046930	pore complex	0.258307017	0.85056
ENSG00000087111	PIGS subnetwork	0.258291817	0.850697302
GO:0042803	protein homodimerization activity	0.258596518	0.851565356
ENSG00000140848	CPNE2 subnetwork	0.258914507	0.85252456
ENSG00000145692	BHMT subnetwork	0.259468297	0.853331052
MP:0008809	increased spleen iron level	0.259420663	0.853354633
ENSG00000068394	GPKOW subnetwork	0.259306797	0.85336758
GO:0019825	oxygen binding	0.259363749	0.853423876
GO:0019208	phosphatase regulator activity	0.25965269	0.853443558
GO:0048747	muscle fiber development	0.259295023	0.853516785
ENSG00000204361	FAM55B subnetwork	0.259646391	0.853626825
ENSG00000099995	SF3A1 subnetwork	0.259288949	0.853688899
GO:0005086	ARF guanyl-nucleotide exchange factor activity	0.259857588	0.854138167
MP:0006301	abnormal mesenchyme morphology	0.259958852	0.854251197
ENSG00000100836	PABPN1 subnetwork	0.26024124	0.854452289
GO:0006704	glucocorticoid biosynthetic process	0.260198288	0.85453303
ENSG00000178952	TUFM subnetwork	0.260150848	0.854556847
MP:0001931	abnormal oogenesis	0.260116765	0.854603464
ENSG00000017427	IGF1 subnetwork	0.260355347	0.854610656
ENSG00000168502	CCDC165 subnetwork	0.260422503	0.854666515
MP:0005293	impaired glucose tolerance	0.260679876	0.855257169
REACTOME_SHC1_EVENTS_IN_ER	REACTOME_SHC1_EVENTS_IN_ERBB2_SIGNALING	0.260947457	0.855823476
ENSG00000116830	TTF2 subnetwork	0.260997157	0.855867637
ENSG00000060688	SNRNP40 subnetwork	0.260924887	0.85592719
ENSG00000143013	LMO4 subnetwork	0.26113321	0.856343793
ENSG00000136560	TANK subnetwork	0.26131694	0.856568182
MP:0010123	increased bone mineral content	0.261264234	0.856671971
ENSG00000184226	PCDH9 subnetwork	0.261490434	0.857021132
MP:0008892	abnormal sperm flagellum morphology	0.261600259	0.857167197
ENSG00000137936	BCAR3 subnetwork	0.262089924	0.857714999
ENSG00000122966	CIT subnetwork	0.26204129	0.857762143
ENSG00000176974	SHMT1 subnetwork	0.261971622	0.857763905
ENSG00000196839	ADA subnetwork	0.262191632	0.85779265
ENSG00000204592	HLA-E subnetwork	0.26193689	0.857856494
GO:0005319	lipid transporter activity	0.261927214	0.858017261
ENSG00000008083	JARID2 subnetwork	0.262383548	0.858391926
ENSG00000137815	RTF1 subnetwork	0.262814332	0.859693878
ENSG00000138443	ABI2 subnetwork	0.263205668	0.861085922
ENSG00000169567	HINT1 subnetwork	0.263389982	0.861650045
ENSG00000165392	WRN subnetwork	0.263601788	0.862165836
ENSG00000049246	PER3 subnetwork	0.263702141	0.862298981
ENSG00000173175	ADCY5 subnetwork	0.26359531	0.862349875
ENSG00000133961	NUMB subnetwork	0.2643231	0.862567812
GO:0044448	cell cortex part	0.264014914	0.862698053
MP:0001932	abnormal spermiogenesis	0.263966217	0.862723568
ENSG00000058272	PPP1R12A subnetwork	0.264311867	0.862728917
ENSG00000172534	HCFC1 subnetwork	0.264067448	0.862729124
MP:0004956	decreased thymus weight	0.264409765	0.862734463
ENSG00000181929	PRKAG1 subnetwork	0.264290331	0.862833559
GO:0045860	positive regulation of protein kinase activity	0.264226781	0.862836462
ENSG00000134684	YARS subnetwork	0.26396567	0.862918931
ENSG00000110321	EIF4G2 subnetwork	0.264198665	0.862929864

ENSG00000177700	POLR2L subnetwork	0.264518039	0.86293493
ENSG00000107223	EDF1 subnetwork	0.264829547	0.863445473
ENSG00000144231	POLR2D subnetwork	0.264880861	0.863487585
ENSG00000124641	MED20 subnetwork	0.264828525	0.86364047
GO:0009895	negative regulation of catabolic process	0.264988023	0.863687655
GO:0001933	negative regulation of protein phosphorylation	0.264777574	0.863733906
GO:0050673	epithelial cell proliferation	0.265157771	0.864090704
GO:0000175	3'-5'-exoribonuclease activity	0.265620862	0.864686655
ENSG00000188342	GTF2F2 subnetwork	0.265604321	0.864847802
REACTOME_PHASE_1_:FUNCTIONALIZATION_OF_COM	REACTOME_PHASE_1_:FUNCTIONALIZATION_OF_COM	0.26581024	0.864868214
ENSG00000100142	POLR2F subnetwork	0.265901658	0.864898649
ENSG00000074370	ATP2A3 subnetwork	0.265786983	0.864995493
ENSG00000169189	NSMCE1 subnetwork	0.265596567	0.865020298
ENSG00000123576	ESX1 subnetwork	0.265772285	0.865111562
ENSG00000170759	KIF5B subnetwork	0.26557058	0.865159035
GO:0048511	rhythmic process	0.266320039	0.865698852
ENSG00000136937	NCBP1 subnetwork	0.266221695	0.86572844
GO:0019048	virus-host interaction	0.266282573	0.865736155
GO:0006412	translation	0.266451725	0.865987849
ENSG00000174437	ATP2A2 subnetwork	0.266683526	0.8663481
GO:0001890	placenta development	0.266671852	0.86648673
ENSG000000005075	POLR2J subnetwork	0.266669562	0.866670416
GO:0045471	response to ethanol	0.266875974	0.866734098
GO:0002823	negative regulation of adaptive immune response based	0.266803067	0.86673786
GO:0031593	polyubiquitin binding	0.267282257	0.866887343
ENSG00000079246	XRCC5 subnetwork	0.267069737	0.866924978
ENSG00000072501	SMC1A subnetwork	0.267197694	0.866939829
ENSG00000146677	ENSG00000146677 subnetwork	0.267163338	0.866999775
ENSG00000163362	C1orf106 subnetwork	0.266969002	0.867
ENSG00000181856	SLC2A4 subnetwork	0.267027909	0.867052348
ENSG00000196415	PRTN3 subnetwork	0.26728078	0.86708193
ENSG00000148672	GLUD1 subnetwork	0.267507954	0.867126514
ENSG00000183072	NKX2-5 subnetwork	0.267460093	0.867220103
ENSG00000134086	VHL subnetwork	0.267866744	0.868019735
ENSG00000166501	PRKCB subnetwork	0.268062404	0.868142089
ENSG00000127688	GAN subnetwork	0.267990072	0.868262332
REACTOME_REGULATION_OF_PY	REACTOME_REGULATION_OF_PYRUVATE_DEHYDROGEN	0.268048086	0.868291863
GO:0008430	selenium binding	0.268223656	0.868346774
GO:0005952	cAMP-dependent protein kinase complex	0.268183591	0.868373292
GO:0052745	inositol phosphate phosphatase activity	0.268547091	0.868449318
ENSG00000215305	VPS16 subnetwork	0.268984481	0.86849866
ENSG00000108854	SMURF2 subnetwork	0.268498086	0.8685094
MP:0001701	incomplete embryo turning	0.26847806	0.868636669
GO:0002039	p53 binding	0.269095717	0.868639714
ENSG00000137672	TRPC6 subnetwork	0.268697434	0.868642362
ENSG00000131899	LLGL1 subnetwork	0.268973043	0.868659218
MP:0004774	abnormal bile salt level	0.268389041	0.868701008
MP:0008722	abnormal chemokine secretion	0.268924882	0.868741618
ENSG000000009413	REV3L subnetwork	0.268802953	0.868761181
ENSG00000067560	RHOA subnetwork	0.268874859	0.868801699
GO:0046165	alcohol biosynthetic process	0.268476233	0.868831169
REACTOME_METABOLISM_OF_PC	REACTOME_METABOLISM_OF_PORPHYRINS	0.268696305	0.868836689
MP:0004500	increased incidence of ionizing radiation-induced tumors	0.269261674	0.868899308
GO:0060341	regulation of cellular localization	0.269202731	0.868959357

ENSG00000105855	ITGB8 subnetwork	0.269383603	0.869095982
ENSG00000143772	ITPKB subnetwork	0.269474438	0.869243641
REACTOME_DEFENSINS	REACTOME_DEFENSINS	0.269438295	0.869247936
ENSG00000185214	ENSG00000185214 subnetwork	0.269685136	0.869808164
ENSG00000124642	ENSG00000124642 subnetwork	0.269937993	0.870278707
ENSG00000133101	CCNA1 subnetwork	0.270027381	0.870407936
ENSG00000184825	HIST1H2AH subnetwork	0.269937993	0.870472792
GO:0046660	female sex differentiation	0.270275685	0.870982839
GO:0008168	methytransferase activity	0.270499072	0.871390374
ENSG00000168135	KCNJ4 subnetwork	0.270658537	0.871447661
ENSG00000168495	POLR3D subnetwork	0.270641627	0.871608376
MP:0004957	abnormal blastocyst morphology	0.27092864	0.871617713
ENSG00000107758	PPP3CB subnetwork	0.270996771	0.871646274
GO:0016410	N-acyltransferase activity	0.270839338	0.871649599
GO:0043393	regulation of protein binding	0.270816669	0.871732354
ENSG00000076242	MLH1 subnetwork	0.27092071	0.871744937
MP:0005342	abnormal intestinal lipid absorption	0.271164293	0.872030694
MP:0001260	increased body weight	0.271312574	0.872198755
GO:0010869	regulation of receptor biosynthetic process	0.271416516	0.872304957
MP:0002643	poikilocytosis	0.271311777	0.872392706
ENSG00000143702	CEP170 subnetwork	0.271636219	0.872412261
ENSG00000143569	UBAP2L subnetwork	0.271814397	0.872508324
ENSG00000101158	TH1L subnetwork	0.271618435	0.872539436
GO:0051099	positive regulation of binding	0.271529307	0.872544444
ENSG00000165632	TAF3 subnetwork	0.271730176	0.872607151
REACTOME_INTERFERON_ALPHA	REACTOME_INTERFERON_ALPHABETA_SIGNALING	0.271811623	0.87267984
ENSG00000182319	SGK223 subnetwork	0.272149774	0.873302264
ENSG00000115008	IL1A subnetwork	0.273548048	0.874359258
ENSG00000134882	UBAC2 subnetwork	0.273517436	0.874486188
GO:0032403	protein complex binding	0.272536922	0.874517417
ENSG00000198677	TTC37 subnetwork	0.27340661	0.874541234
ENSG00000172915	NBEA subnetwork	0.273473399	0.874568966
MP:0001284	absent vibrissae	0.272625479	0.874622893
GO:0004385	guanylate kinase activity	0.272895656	0.874673166
ENSG00000125398	SOX9 subnetwork	0.27338069	0.874679345
GO:0051345	positive regulation of hydrolase activity	0.272941887	0.87470093
ENSG00000141696	LEPREL4 subnetwork	0.273144909	0.874756529
ENSG00000130041	ENSG00000130041 subnetwork	0.272814023	0.874772778
ENSG00000215440	NPEPL1 subnetwork	0.273195497	0.874784244
REACTOME_CREB_PHOSPHORYLA	REACTOME_CREB_PHOSPHORYLATION_THROUGH_THE_	0.273359844	0.874795399
MP:0002020	increased tumor incidence	0.273905087	0.874828956
REACTOME_DEVELOPMENTAL_BI	REACTOME_DEVELOPMENTAL_BIOLOGY	0.272893184	0.874844858
GO:0043209	myelin sheath	0.273298886	0.874845133
MP:0000187	abnormal triglyceride level	0.273866558	0.87486755
ENSG00000076928	ARHGEF1 subnetwork	0.273141404	0.87492805
ENSG00000011451	WIZ subnetwork	0.273838567	0.87493928
ENSG00000184787	UBE2G2 subnetwork	0.273738657	0.874961343
ENSG00000177954	RPS27 subnetwork	0.272814023	0.874966741
ENSG00000130956	HABP4 subnetwork	0.274078969	0.874972424
GO:0048038	quinone binding	0.274013555	0.875
ENSG00000180900	SCRIB subnetwork	0.272765046	0.875005544
ENSG00000105245	NUMBL subnetwork	0.273131386	0.875011072
MP:0011091	complete prenatal lethality	0.273816709	0.875066254
MP:0000296	absent trabeculae carnea	0.274239443	0.875093716

ENSG00000178573	MAF subnetwork	0.273103017	0.875149502
ENSG00000119203	CPSF3 subnetwork	0.274227818	0.875242611
ENSG00000198612	COPS8 subnetwork	0.274371596	0.87526455
ENSG00000180581	ENSG00000180581 subnetwork	0.274795875	0.87540731
ENSG00000125868	DSTN subnetwork	0.274501284	0.875424289
ENSG00000136986	DERL1 subnetwork	0.274905714	0.875506162
ENSG00000030304	MUSK subnetwork	0.27467827	0.875567306
ENSG00000143742	SRP9 subnetwork	0.274795875	0.875600088
ENSG00000171241	SHCBP1 subnetwork	0.274650985	0.875617012
ENSG00000170653	ATF7 subnetwork	0.274770105	0.875671806
GO:0000287	magnesium ion binding	0.274896925	0.875676866
ENSG00000159346	ADIPOR1 subnetwork	0.27502254	0.875687569
ENSG00000158560	DYNC11I subnetwork	0.275183285	0.876044875
ENSG00000157764	BRAF subnetwork	0.275325959	0.876303057
ENSG00000117533	VAMP4 subnetwork	0.275417977	0.876495163
ENSG00000169306	IL1RAPL1 subnetwork	0.275843014	0.877676412
GO:0001047	core promoter binding	0.275970644	0.878021978
MP:0001819	abnormal immune cell physiology	0.276402617	0.878358209
ENSG00000183574	RNF5 subnetwork	0.276391566	0.878507135
ENSG000000204308	RNF5 subnetwork	0.276391566	0.878700044
ENSG00000126945	HNRNPH2 subnetwork	0.276331244	0.878877417
ENSG000000206254	ENSG000000206254 subnetwork	0.276391566	0.878893038
MP:0002747	abnormal aortic valve morphology	0.276281573	0.878960668
ENSG00000177455	CD19 subnetwork	0.276758415	0.879135586
ENSG00000131037	EPS8L1 subnetwork	0.276715235	0.879185868
ENSG00000100138	NHP2L1 subnetwork	0.276998763	0.87988594
GO:0046824	positive regulation of nucleocytoplasmic transport	0.277410459	0.881260965
ENSG00000158773	USF1 subnetwork	0.277740908	0.881832128
GO:0031018	endocrine pancreas development	0.277727879	0.881959667
ENSG00000100280	AP1B1 subnetwork	0.277693733	0.882065337
ENSG00000163960	UBXN7 subnetwork	0.27788576	0.882131902
ENSG00000133997	MED6 subnetwork	0.278076695	0.882347788
ENSG00000166135	HIF1AN subnetwork	0.278036358	0.88237678
ENSG00000132326	PER2 subnetwork	0.278375691	0.882786168
ENSG00000168496	FEN1 subnetwork	0.278338416	0.882891856
ENSG00000138696	BMPR1B subnetwork	0.278289553	0.882964747
ENSG00000004455	AK2 subnetwork	0.278690299	0.883676149
GO:0032387	negative regulation of intracellular transport	0.278922576	0.88373415
ENSG00000085662	AKR1B1 subnetwork	0.278815995	0.883792651
MP:0002840	abnormal lens fiber morphology	0.278864024	0.883796195
GO:0045861	negative regulation of proteolysis	0.278772906	0.883843798
ENSG00000105669	COPE subnetwork	0.279237831	0.884666667
MP:0005100	abnormal choroid pigmentation	0.279377787	0.884673367
GO:0045078	positive regulation of interferon-gamma biosynthetic process	0.279469665	0.884731324
GO:0008211	glucocorticoid metabolic process	0.279618064	0.884759825
ENSG00000178035	IMPDH2 subnetwork	0.279374362	0.884855769
ENSG00000131791	PRKAB2 subnetwork	0.279596991	0.884931208
REACTOME_INFLUENZA_VIRAL_R	REACTOME_INFLUENZA_VIRAL_RNA_TRANSCRIPTION_A	0.280062053	0.885598953
ENSG00000138032	PPM1B subnetwork	0.280002588	0.885639459
GO:0010743	regulation of macrophage derived foam cell differentiation	0.27992376	0.885658153
ENSG00000135486	HNRNPA1 subnetwork	0.280450632	0.886780105
GO:0002922	positive regulation of humoral immune response	0.280684237	0.886857018
ENSG00000118579	MED28 subnetwork	0.280818867	0.886906318
ENSG00000161960	EIF4A1 subnetwork	0.280660499	0.886941356

ENSG00000063244	U2AF2 subnetwork	0.280787387	0.886979734
ENSG00000105085	MED26 subnetwork	0.280558178	0.887044711
GO:0051568	histone H3-K4 methylation	0.280628544	0.887047536
GO:0005840	ribosome	0.280932587	0.887148769
MP:0000371	diluted coat color	0.281206471	0.887192601
ENSG00000213920	MDP1 subnetwork	0.281035008	0.88720601
ENSG00000072694	FCGR2B subnetwork	0.281096414	0.887219682
ENSG00000197785	ATAD3A subnetwork	0.281201729	0.887385721
ENSG00000176170	SPHK1 subnetwork	0.281359579	0.887456484
MP:0003853	dry skin	0.281606512	0.887926909
GO:0043274	phospholipase binding	0.281868202	0.888163043
ENSG00000147536	GINS4 subnetwork	0.281937012	0.888241687
GO:0004725	protein tyrosine phosphatase activity	0.281744785	0.888255763
GO:0061039	ovum-producing ovary development	0.281840029	0.888323549
ENSG00000197343	ZNF655 subnetwork	0.282249075	0.888961321
GO:0090132	epithelium migration	0.282591719	0.889824066
GO:0048020	CCR chemokine receptor binding	0.282652392	0.889837134
GO:0010631	epithelial cell migration	0.282591719	0.89001738
ENSG00000130176	CNN1 subnetwork	0.282842832	0.890197568
ENSG00000065427	KARS subnetwork	0.283160457	0.890991969
GO:0035825	reciprocal DNA recombination	0.283414694	0.891034258
GO:2000242	negative regulation of reproductive process	0.28321571	0.891037326
KEGG_GLYCOSYLPHOSPHATIDYLINOSITOL_GPI_ANCHOR	KEGG_GLYCOSYLPHOSPHATIDYLINOSITOL_GPI_ANCHOR	0.283265885	0.891060968
GO:0007131	reciprocal meiotic recombination	0.283414694	0.891227499
GO:0014074	response to purine-containing compound	0.283353101	0.891247289
ENSG00000215719	ENSG00000215719 subnetwork	0.283879852	0.891809317
ENSG00000163162	RNF149 subnetwork	0.283761177	0.891881639
ENSG00000169016	E2F6 subnetwork	0.283853428	0.891970091
ENSG00000196284	SUPT3H subnetwork	0.284482303	0.892815408
ENSG00000127511	SIN3B subnetwork	0.284409211	0.89295302
MP:0010124	decreased bone mineral content	0.284475392	0.89297619
ENSG00000140262	TCF12 subnetwork	0.284652411	0.893130679
ENSG00000181991	MRPS11 subnetwork	0.284406837	0.893135557
MP:0003572	abnormal uterus development	0.284358799	0.89317591
ENSG00000134602	ENSG00000134602 subnetwork	0.28438513	0.893231536
ENSG00000196405	EVL subnetwork	0.284916834	0.893643243
ENSG00000137076	TLN1 subnetwork	0.284848943	0.893662124
GO:0032259	methylation	0.285004592	0.893677043
ENSG00000167641	PPP1R14A subnetwork	0.284905628	0.893717561
ENSG00000173744	AGFG1 subnetwork	0.285125028	0.89387292
ENSG00000015153	YAF2 subnetwork	0.285369042	0.894028078
REACTOME_METABOLISM_OF_PF	REACTOME_METABOLISM_OF_PROTEINS	0.285459839	0.894126539
GO:0015085	calcium ion transmembrane transporter activity	0.285361721	0.894178008
ENSG00000135269	TES subnetwork	0.28533374	0.894273984
ENSG00000181817	LSM10 subnetwork	0.286077996	0.894588185
GO:0090068	positive regulation of cell cycle process	0.286042638	0.894619366
GO:0030132	clathrin coat of coated pit	0.286143644	0.894675577
GO:0005158	insulin receptor binding	0.2859295	0.894703344
REACTOME_TRANSLATION	REACTOME_TRANSLATION	0.285976484	0.894704487
MP:0002833	increased heart weight	0.286231759	0.894795259
MP:0002133	abnormal respiratory system physiology	0.285883011	0.894799309
ENSG00000073910	FRY subnetwork	0.28574053	0.894851036
ENSG00000172845	SP3 subnetwork	0.285853458	0.8949169
ENSG00000198924	DCLRE1A subnetwork	0.286655844	0.896326223

MP:0004045	abnormal cell cycle checkpoint function	0.286754485	0.896456269
GO:0008630	DNA damage response, signal transduction resulting in ir	0.287101814	0.897287406
ENSG00000108798	ABI3 subnetwork	0.287052102	0.897351421
MP:0002216	abnormal seminiferous tubule morphology	0.287045889	0.897480078
GO:0035586	purinergic receptor activity	0.287403476	0.897901872
ENSG00000120087	HOXB7 subnetwork	0.287398877	0.89806285
ENSG00000063978	RNF4 subnetwork	0.287558378	0.898300344
ENSG00000122257	RBBP6 subnetwork	0.287622578	0.898311465
ENSG00000196092	PAX5 subnetwork	0.287694648	0.898344086
ENSG00000141026	MED9 subnetwork	0.288159646	0.899119037
MP:0001011	abnormal superior cervical ganglion morphology	0.288136009	0.899269289
GO:0051896	regulation of protein kinase B signaling cascade	0.288248405	0.899344791
REACTOME_GRB2_EVENTS_IN_ERBB2_SIGNALING	REACTOME_GRB2_EVENTS_IN_ERBB2_SIGNALING	0.28804928	0.899354977
GO:0005247	voltage-gated chloride channel activity	0.28811211	0.899376612
GO:0050701	interleukin-1 secretion	0.288383831	0.899591924
ENSG00000039123	SKIV2L2 subnetwork	0.288585244	0.900118102
ENSG00000158417	EIF5B subnetwork	0.288777486	0.900429277
MP:0004618	thoracic vertebral transformation	0.288745476	0.900525977
KEGG_BLADDER_CANCER	KEGG_BLADDER_CANCER	0.289285387	0.901984979
MP:0009050	dilated proximal convoluted tubules	0.289774857	0.903475649
ENSG00000151729	SLC25A4 subnetwork	0.289944449	0.903527015
MP:0000358	abnormal cell morphology	0.290531689	0.903540107
GO:0010038	response to metal ion	0.289851281	0.903549979
GO:0050921	positive regulation of chemotaxis	0.290594715	0.903571429
ENSG00000147145	LPAR4 subnetwork	0.290490317	0.903605049
ENSG00000153807	ENSG00000153807 subnetwork	0.290190943	0.903609683
ENSG00000171453	POLR1C subnetwork	0.289925157	0.903645722
GO:0000979	RNA polymerase II core promoter sequence-specific DNA	0.290465999	0.903691419
ENSG00000156697	UTP14A subnetwork	0.290145629	0.903696165
GO:0033599	regulation of mammary gland epithelial cell proliferation	0.290286846	0.903758835
MP:0000383	abnormal hair follicle orientation	0.290087483	0.903762058
GO:0007569	cell aging	0.290438055	0.903831336
ENSG00000146963	LUC7L2 subnetwork	0.290132685	0.903836262
ENSG00000028137	TNFRSF1B subnetwork	0.290420918	0.903896382
ENSG00000196396	PTPN1 subnetwork	0.290367111	0.903972163
REACTOME_TRIGLYCERIDE_BIOSY	REACTOME_TRIGLYCERIDE_BIOSYNTHESIS	0.291566886	0.904790866
REACTOME_HIV_INFECTION	REACTOME_HIV_INFECTION	0.291051292	0.904810776
REACTOME_POST_NMDA_RECEP	REACTOME_POST_NMDA_RECEPTOR_ACTIVATION_EVEI	0.291367203	0.904816318
GO:0016209	antioxidant activity	0.291151448	0.904905943
ENSG00000174371	EXO1 subnetwork	0.291890959	0.904924323
ENSG00000100056	DGCR14 subnetwork	0.291473229	0.904932735
ENSG00000151224	MAT1A subnetwork	0.29122824	0.904936952
ENSG00000144891	AGTR1 subnetwork	0.29155965	0.904941302
GO:0060260	regulation of transcription initiation from RNA polymera	0.29199702	0.904954187
MP:0004200	decreased fetal size	0.291288421	0.904957265
ENSG00000129465	RIPK3 subnetwork	0.291526655	0.904974381
REACTOME_G_ALPHA_1213_SIGH	REACTOME_G_ALPHA_1213_SIGNALLING_EVENTS	0.291365049	0.904977569
GO:0033549	MAP kinase phosphatase activity	0.292154607	0.905015974
GO:0048185	actinin binding	0.292109479	0.905017043
ENSG00000196419	XRCC6 subnetwork	0.292327307	0.905077709
ENSG00000182180	MRPS16 subnetwork	0.291869902	0.905085288
ENSG00000183117	CSMD1 subnetwork	0.291720366	0.905088543
GO:2000142	regulation of transcription initiation, DNA-dependent	0.29199702	0.905147059
ENSG00000196611	MMP1 subnetwork	0.291832461	0.905161015

ENSG00000134202	GSTM3 subnetwork	0.291801805	0.90524744
GO:0005768	endosome	0.292323418	0.905259796
ENSG00000171475	WIPF2 subnetwork	0.292716603	0.905990636
GO:0042168	heme metabolic process	0.292666077	0.905991911
ENSG00000206340	C4A subnetwork	0.293134473	0.906568878
GO:0019003	GDP binding	0.293106344	0.906602169
ENSG00000102145	GATA1 subnetwork	0.292933448	0.906606383
MP:0006398	increased long bone epiphyseal plate size	0.293077572	0.906656742
ENSG00000115091	ACTR3 subnetwork	0.293049093	0.906764518
ENSG00000169100	SLC25A6 subnetwork	0.293461094	0.90703208
ENSG00000159082	SYNJ1 subnetwork	0.293454935	0.907214195
ENSG00000182957	SPATA13 subnetwork	0.29368378	0.907283924
MP:0008019	increased liver tumor incidence	0.293411162	0.907311371
REACTOME_LIPOPROTEIN_METABOLISM	REACTOME_LIPOPROTEIN_METABOLISM	0.293762228	0.907367304
ENSG00000107263	RAPGEF1 subnetwork	0.293660066	0.907391674
ENSG00000166930	MS4A5 subnetwork	0.293878063	0.907406621
ENSG00000130939	UBE4B subnetwork	0.293840771	0.907503715
GO:0005044	scavenger receptor activity	0.294090383	0.907583793
ENSG00000132561	MATN2 subnetwork	0.294086986	0.907776363
ENSG00000184678	HIST2H2BE subnetwork	0.29427662	0.908091198
ENSG00000104921	FCER2 subnetwork	0.294806411	0.908697034
GO:0045124	regulation of bone resorption	0.294786284	0.908794236
ENSG0000013561	RNF14 subnetwork	0.294776829	0.908976261
ENSG00000111540	RAB5B subnetwork	0.294639747	0.909043681
ENSG00000153162	BMP6 subnetwork	0.294745237	0.909115964
GO:0034339	regulation of transcription from RNA polymerase II promoter	0.294997923	0.909140013
ENSG00000162909	CAPN2 subnetwork	0.295245645	0.909731046
ENSG00000070808	CAMK2A subnetwork	0.295539661	0.910533559
KEGG_HEDGEHOG_SIGNALING_PATHWAY	KEGG_HEDGEHOG_SIGNALING_PATHWAY	0.295672266	0.910592593
GO:0051972	regulation of telomerase activity	0.295660637	0.910774767
REACTOME_ACTIVATION_OF_RAC	REACTOME_ACTIVATION_OF_RAC	0.296028682	0.910956007
ENSG00000213397	HAUS7 subnetwork	0.295940452	0.91110876
MP:0000470	abnormal stomach morphology	0.296022003	0.91114872
GO:0010042	response to manganese ion	0.296459893	0.911857958
GO:0031490	chromatin DNA binding	0.296434612	0.911997886
ENSG00000168002	POLR2G subnetwork	0.296699701	0.912085358
GO:0005852	eukaryotic translation initiation factor 3 complex	0.29663376	0.91215131
GO:0043256	laminin complex	0.296431717	0.912180165
MP:0008974	proportional dwarf	0.296995592	0.912727081
GO:0010035	response to inorganic substance	0.297180965	0.912901182
GO:0032570	response to progesterone stimulus	0.297365272	0.913075137
ENSG00000116459	ATP5F1 subnetwork	0.297168806	0.913083421
ENSG00000125249	RAP2A subnetwork	0.297358644	0.913236225
GO:0043488	regulation of mRNA stability	0.297514441	0.913238397
MP:0002642	anisocytosis	0.297684734	0.913251107
ENSG00000120949	TNFRSF8 subnetwork	0.297479462	0.913304495
GO:0004467	long-chain fatty acid-CoA ligase activity	0.297880653	0.913358618
MP:0002904	increased circulating parathyroid hormone level	0.297661461	0.913412062
ENSG00000077063	CTTNBP2 subnetwork	0.297876638	0.913551106
MP:0006055	abnormal vascular endothelial cell morphology	0.297640038	0.91356254
ENSG00000004660	CAMKK1 subnetwork	0.297864993	0.913733137
MP:0002041	increased pituitary adenoma incidence	0.298034561	0.913756056
MP:0005505	increased platelet cell number	0.298226425	0.914097705
ENSG00000196218	RYR1 subnetwork	0.298435595	0.914183502

ENSG00000197915	HRNR subnetwork	0.298215338	0.914248104
ENSG00000105220	GPI subnetwork	0.298489338	0.914275195
ENSG00000148218	ALAD subnetwork	0.298427435	0.914344349
ENSG00000169957	ZNF768 subnetwork	0.29837891	0.914347368
MP:0002264	abnormal bronchus morphology	0.299033822	0.914455175
MP:0005168	abnormal female meiosis	0.298986873	0.91448971
ENSG00000103507	BCKDK subnetwork	0.298696735	0.91450799
ENSG00000086619	ERO1LB subnetwork	0.298822118	0.914554435
MP:0000828	abnormal fourth ventricle morphology	0.298665001	0.914595163
REACTOME_IRS:RELATED_EVENT: REACTOME_IRS:RELATED_EVENTS		0.298975443	0.914608276
ENSG00000136738	STAM subnetwork	0.298648702	0.914713925
ENSG00000120690	ELF1 subnetwork	0.29881618	0.914715157
REACTOME_IRS:MEDIATED_SIGN: REACTOME_IRS:MEDIATED_SIGNALLING		0.298975443	0.91480042
MP:0001413	abnormal response to new environment	0.298969165	0.91495062
ENSG00000108424	KPNB1 subnetwork	0.29930362	0.91498426
ENSG00000100083	GGA1 subnetwork	0.299299745	0.915155332
ENSG00000125944	HNRNPR subnetwork	0.299617756	0.915935795
REACTOME_ANTIGEN_PROCESSING: REACTOME_ANTIGEN_PROCESSING_UBIQUITINATION		0.299823239	0.916362492
ENSG00000139496	NUPL1 subnetwork	0.299949416	0.916547819
GO:0005815	microtubule organizing center	0.300107369	0.916890333
REACTOME_SIGNALING_BY_NOD: REACTOME_SIGNALING_BY_NODAL		0.30043252	0.917050691
GO:0055001	muscle cell development	0.300357884	0.917075215
GO:0071407	cellular response to organic cyclic compound	0.300716559	0.917176052
GO:0042771	DNA damage response, signal transduction by p53 class 1	0.300350325	0.917215004
ENSG00000183765	CHEK2 subnetwork	0.30069572	0.917305276
GO:0090130	tissue migration	0.300624004	0.917350785
GO:0008641	small protein activating enzyme activity	0.30030333	0.917389937
ENSG00000170820	FSHR subnetwork	0.300344924	0.917396772
ENSG00000078902	TOLLIP subnetwork	0.300923031	0.917507325
ENSG00000198689	SLC9A6 subnetwork	0.30143613	0.918782681
GO:0045786	negative regulation of cell cycle	0.301414632	0.918891213
ENSG00000050820	BCAR1 subnetwork	0.301410125	0.91908349
GO:0032320	positive regulation of Ras GTPase activity	0.301600065	0.919144709
ENSG00000118523	CTGF subnetwork	0.301912485	0.919763796
MP:0008347	decreased gamma-delta T cell number	0.301870671	0.919788835
REACTOME_ASSOCIATION_OF_TF: REACTOME_ASSOCIATION_OF_TRICCCCT_WITH_TARGET		0.302418864	0.920317394
MP:0000003	abnormal adipose tissue morphology	0.302165787	0.920344828
ENSG00000107949	BCCIP subnetwork	0.302392723	0.920436508
GO:0050848	regulation of calcium-mediated signaling	0.302564376	0.920553236
ENSG00000137642	SORL1 subnetwork	0.302637166	0.920601127
MP:0006319	abnormal epididymal fat pad morphology	0.302384694	0.920618341
ENSG00000148848	ADAM12 subnetwork	0.303200571	0.920639717
KEGG_CALCIIUM_SIGNALING_PATHWAY		0.30281225	0.92064469
ENSG00000161547	SRSF2 subnetwork	0.302949149	0.920646507
ENSG00000116711	PLA2G4A subnetwork	0.30234751	0.920664438
ENSG00000141030	COPS3 subnetwork	0.303174397	0.920716965
ENSG00000174791	RIN1 subnetwork	0.303111281	0.9207734
GO:0006304	DNA modification	0.302927914	0.920807259
ENSG00000065057	NTHL1 subnetwork	0.302800311	0.920815943
GO:0046626	regulation of insulin receptor signaling pathway	0.303080417	0.92087156
ENSG00000136810	TXN subnetwork	0.303443544	0.9211875
ENSG00000148180	GSN subnetwork	0.303545756	0.921412206
ENSG00000121671	CRY2 subnetwork	0.303745035	0.921855477
GO:0071902	positive regulation of protein serine/threonine kinase ac	0.303979259	0.921883455

MP:0002132	abnormal respiratory system morphology	0.303846579	0.921923798
ENSG00000100395	L3MBTL2 subnetwork	0.303945621	0.921981682
GO:0006611	protein export from nucleus	0.304278773	0.922679983
ENSG00000198742	SMURF1 subnetwork	0.304402228	0.922831288
ENSG00000116898	MRPS15 subnetwork	0.304860862	0.923498233
GO:0043550	regulation of lipid kinase activity	0.30496499	0.923659601
MP:0002447	abnormal erythrocyte morphology	0.304859925	0.923690229
ENSG00000121807	CCR2 subnetwork	0.304803433	0.923715949
ENSG00000215782	ENSG00000215782 subnetwork	0.304803433	0.92390807
ENSG00000116962	NID1 subnetwork	0.305447164	0.924237077
GO:0009612	response to mechanical stimulus	0.305411999	0.924377076
ENSG00000144218	AFF3 subnetwork	0.305379522	0.924454829
ENSG00000165476	REEP3 subnetwork	0.305295912	0.924506545
GO:0019887	protein kinase regulator activity	0.30537503	0.924636477
GO:0008601	protein phosphatase type 2A regulator activity	0.305804602	0.924948111
ENSG00000105568	PPP2R1A subnetwork	0.305978989	0.925378709
MP:0003420	delayed intramembranous bone ossification	0.306181846	0.925923237
ENSG00000097046	CDC7 subnetwork	0.30620389	0.925959345
ENSG00000149357	LAMTOR1 subnetwork	0.306650628	0.927140784
ENSG00000150760	DOCK1 subnetwork	0.306642486	0.927281211
ENSG00000184900	SUMO3 subnetwork	0.306964041	0.927813472
GO:0060644	mammary gland epithelial cell differentiation	0.306927585	0.927839967
GO:0040012	regulation of locomotion	0.307148318	0.928180688
MP:0002784	abnormal Sertoli cell morphology	0.307256878	0.928350943
MP:0005244	hemopericardium	0.307689119	0.92961889
MP:0010383	increased adenoma incidence	0.30801596	0.930389315
ENSG00000112242	E2F3 subnetwork	0.308123624	0.930569358
REACTOME_SIGNALING_BY_ROBO	REACTOME_SIGNALING_BY_ROBO_RECEPTOR	0.308266125	0.930821776
ENSG00000116285	ERRFI1 subnetwork	0.308470723	0.931109042
ENSG00000166337	TAF10 subnetwork	0.308437033	0.931198262
GO:0050860	negative regulation of T cell receptor signaling pathway	0.309083774	0.931237092
ENSG00000126218	F10 subnetwork	0.309353967	0.931262897
MP:0001380	reduced male mating frequency	0.309324449	0.931372549
GO:0043388	positive regulation of DNA binding	0.309248348	0.931379026
GO:0050858	negative regulation of antigen receptor-mediated signaling	0.309083774	0.931429457
GO:0018107	peptidyl-threonine phosphorylation	0.309246213	0.931561016
GO:0042446	hormone biosynthetic process	0.309080446	0.931590909
ENSG00000148143	ZNF462 subnetwork	0.308895329	0.931724209
MP:0010825	abnormal lung sacculle morphology	0.309057325	0.931731763
GO:0022602	ovulation cycle process	0.309056123	0.931914014
ENSG00000132300	PTCD3 subnetwork	0.308892989	0.931916873
MP:0005169	abnormal male meiosis	0.308788537	0.931940422
ENSG00000149532	CPSF7 subnetwork	0.308850826	0.932006205
GO:0006110	regulation of glycolysis	0.310216486	0.932248094
ENSG00000131368	MRPS25 subnetwork	0.310166032	0.93231657
ENSG00000172058	SERF1A subnetwork	0.310090593	0.932323232
ENSG00000205572	SERF1B subnetwork	0.310090593	0.932515464
ENSG00000132341	RAN subnetwork	0.309834189	0.932535589
ENSG00000034971	MYOC subnetwork	0.310028751	0.932604661
ENSG00000007968	E2F2 subnetwork	0.31035498	0.932612279
GO:0070193	synaptonemal complex organization	0.310000173	0.932724835
GO:0000159	protein phosphatase type 2A complex	0.31057468	0.932907743
ENSG00000064703	DDX20 subnetwork	0.310516631	0.932955716
ENSG00000170608	FOXA3 subnetwork	0.310703457	0.933127445

GO:0046825	regulation of protein export from nucleus	0.310865725	0.93313786
ENSG00000196305	IARS subnetwork	0.310826922	0.933185841
ENSG00000088035	ALG6 subnetwork	0.31100898	0.933347048
ENSG00000130772	MED18 subnetwork	0.310804844	0.933347056
ENSG00000184083	FAM120C subnetwork	0.311191942	0.933669272
MP:0000826	abnormal third ventricle morphology	0.311489676	0.933867653
GO:0004842	ubiquitin-protein ligase activity	0.311488438	0.934049332
ENSG00000172006	ZNF554 subnetwork	0.311433643	0.934066612
GO:0030260	entry into host cell	0.312339578	0.934163592
MP:0009115	abnormal fat cell morphology	0.31141517	0.934176434
ENSG00000074181	NOTCH3 subnetwork	0.312467266	0.934289813
MP:0006304	abnormal seminiferous epithelium morphology	0.312556062	0.934344262
GO:0051828	entry into other organism involved in symbiotic interaction	0.312339578	0.934355136
ENSG00000028277	POU2F2 subnetwork	0.311774825	0.934364085
MP:0000611	jaundice	0.312728832	0.934381401
MP:0002932	abnormal joint morphology	0.312830508	0.934425558
ENSG00000168005	C11orf84 subnetwork	0.312717296	0.934511371
ENSG00000081019	RSBN1 subnetwork	0.312895092	0.934520885
GO:0051806	entry into cell of other organism involved in symbiotic interaction	0.312339578	0.93454676
ENSG00000107796	ACTA2 subnetwork	0.312019762	0.934579055
ENSG00000143373	ZNF687 subnetwork	0.31188984	0.934582991
REACTOME_CLASS_I_MHC_MEDIATED_ANTIGEN_PROCESSING	REACTOME_CLASS_I_MHC_MEDIATED_ANTIGEN_PROCESSING	0.312095862	0.934654075
GO:0051539	4 iron, 4 sulfur cluster binding	0.311973022	0.934658041
GO:0052192	movement in environment of other organism involved in symbiotic interaction	0.312339578	0.934738462
GO:0044409	entry into host	0.312339578	0.934930242
ENSG00000020922	MRE11A subnetwork	0.312267107	0.935067734
GO:0052126	movement in host environment	0.312339578	0.935122101
MP:0008593	increased circulating interleukin-10 level	0.313288956	0.935509619
ENSG00000160255	ITGB2 subnetwork	0.313363346	0.935584203
ENSG00000111229	ARPC3 subnetwork	0.313246008	0.935609007
ENSG00000117133	RPF1 subnetwork	0.313510333	0.935761047
ENSG00000197442	MAP3K5 subnetwork	0.313832912	0.93577269
MP:0003453	abnormal keratinocyte physiology	0.313808004	0.935902678
ENSG00000143537	ADAM15 subnetwork	0.31367496	0.935958274
MP:0001486	abnormal startle reflex	0.313778437	0.936063395
ENSG00000071626	DAZAP1 subnetwork	0.314130679	0.936460249
ENSG00000186153	WWOX subnetwork	0.314262732	0.936646915
ENSG00000146587	RBAK subnetwork	0.314327666	0.936741573
GO:0060443	mammary gland morphogenesis	0.314424193	0.936785131
GO:0090398	cellular senescence	0.314505839	0.936889933
ENSG00000048052	HDAC9 subnetwork	0.314728806	0.936938776
MP:0000183	decreased circulating LDL cholesterol level	0.314709803	0.937099408
ENSG00000104081	BMF subnetwork	0.314696596	0.937229481
ENSG00000074590	NUAK1 subnetwork	0.315409067	0.938961436
GO:0010677	negative regulation of cellular carbohydrate metabolic process	0.315859095	0.939482267
MP:0010019	liver vascular congestion	0.315956611	0.939545547
GO:0045912	negative regulation of carbohydrate metabolic process	0.315859095	0.939673802
GO:0004527	exonuclease activity	0.315848947	0.939834829
REACTOME_TIE2_SIGNALING	REACTOME_TIE2_SIGNALING	0.315723227	0.939881681
ENSG00000120696	KBTBD7 subnetwork	0.316150106	0.939914425
ENSG00000151322	NPAS3 subnetwork	0.31583763	0.939995921
ENSG00000100299	ARSA subnetwork	0.316247501	0.940069261
MP:0004737	absent distortion product otoacoustic emissions	0.31632419	0.940152749
ENSG00000173402	DAG1 subnetwork	0.31658736	0.94069436

GO:0005798	Golgi-associated vesicle	0.31676004	0.940738856
MP:0009548	abnormal platelet aggregation	0.316669458	0.940757329
GO:0051168	nuclear export	0.317235034	0.941187233
ENSG00000155966	AFF2 subnetwork	0.317152108	0.941285337
GO:0060393	regulation of pathway-restricted SMAD protein phospho	0.317209375	0.941297275
GO:0005527	macrolide binding	0.317046208	0.941373347
ENSG00000136603	SKIL subnetwork	0.317105738	0.941375102
GO:0005528	FK506 binding	0.317046208	0.941564917
ENSG00000070814	TCOF1 subnetwork	0.31744792	0.941595528
GO:0016836	hydro-lyase activity	0.317577114	0.941932534
ENSG00000161956	SEN3 subnetwork	0.31789907	0.942443632
ENSG00000168067	MAP4K2 subnetwork	0.317870109	0.942574157
ENSG00000116544	DLGAP3 subnetwork	0.318305772	0.943338749
MP:0003436	decreased susceptibility to induced arthritis	0.318706709	0.94336714
ENSG00000186867	QRFPR subnetwork	0.318775957	0.943378625
MP:0010179	rough coat	0.318648233	0.943396226
GO:0046456	icosanoid biosynthetic process	0.318636352	0.94356737
ENSG00000083290	ULK2 subnetwork	0.31854853	0.943576213
ENSG00000198231	DDX42 subnetwork	0.318521455	0.943676411
GO:0006641	triglyceride metabolic process	0.318500561	0.943827411
GO:0007143	female meiosis	0.319201169	0.943981763
GO:0050918	positive chemotaxis	0.319028094	0.944028792
GO:0010638	positive regulation of organelle organization	0.319196491	0.944142683
MP:0004772	abnormal bile secretion	0.319185993	0.944293533
ENSG00000047249	ATP6V1H subnetwork	0.319506262	0.94440956
GO:0060444	branching involved in mammary gland duct morphogene	0.319499724	0.944590762
GO:0006305	DNA alkylation	0.319979087	0.945171087
GO:0006306	DNA methylation	0.319979087	0.945362495
GO:0090307	spindle assembly involved in mitosis	0.320811314	0.946642395
MP:0006027	impaired lung alveolus development	0.321637636	0.946691547
KEGG_CELL_CYCLE	KEGG_CELL_CYCLE	0.320637316	0.946701073
ENSG00000057593	F7 subnetwork	0.320605777	0.946761134
ENSG00000196943	C14orf21 subnetwork	0.321482362	0.946770287
ENSG00000197555	SIPA1L1 subnetwork	0.32072706	0.946792796
ENSG00000115524	SF3B1 subnetwork	0.32154599	0.946801211
ENSG00000104067	TJP1 subnetwork	0.320795226	0.946803561
ENSG00000071054	MAP4K4 subnetwork	0.321815748	0.946813874
MP:0001849	ear inflammation	0.321754666	0.946833401
GO:0048610	cellular process involved in reproduction	0.321624695	0.946842211
GO:0007596	blood coagulation	0.32145527	0.946870583
MP:0002667	decreased circulating aldosterone level	0.321415979	0.946970921
ENSG00000143322	ABL2 subnetwork	0.321322376	0.947010101
ENSG00000205339	IPO7 subnetwork	0.321387273	0.947101596
MP:0004838	abnormal neural fold elevation formation	0.321182507	0.947129573
KEGG_ALANINE_ASPARTATE_AND_KEGG_ALANINE_ASPARTATE_AND_GLUTAMATE_METAB		0.322009508	0.947157258
ENSG00000165916	PSMC3 subnetwork	0.321121412	0.947159321
ENSG00000123700	KCNJ2 subnetwork	0.32123404	0.947160469
GO:0032147	activation of protein kinase activity	0.321314776	0.947191352
ENSG00000113161	HMGCR subnetwork	0.321120613	0.947340748
ENSG00000130803	ZNF317 subnetwork	0.322338695	0.947451652
ENSG00000135845	PIGC subnetwork	0.322312785	0.947551884
ENSG00000179632	MAF1 subnetwork	0.322273261	0.947591697
ENSG00000132432	SEC61G subnetwork	0.322218326	0.947641605
MP:0005159	azoospermia	0.322483356	0.947653575

ENSG00000074047	GLI2 subnetwork	0.322796922	0.948318905
ENSG00000156603	MED19 subnetwork	0.32277469	0.948449456
ENSG00000171444	MCC subnetwork	0.322976509	0.948752013
ENSG00000128245	YWHAH subnetwork	0.323512645	0.950020125
GO:0008194	UDP-glycosyltransferase activity	0.323777725	0.950040217
ENSG00000137074	APTX subnetwork	0.323601676	0.950160966
MP:0002810	microcytic anemia	0.323766411	0.950201126
MP:0005533	increased body temperature	0.323706241	0.950221283
ENSG00000106615	RHEB subnetwork	0.324118803	0.951055489
ENSG00000156313	RPGR subnetwork	0.324190091	0.951165829
GO:0010742	macrophage derived foam cell differentiation	0.324661746	0.951284625
ENSG00000168476	REEP4 subnetwork	0.324777378	0.951384708
GO:0090077	foam cell differentiation	0.324661746	0.951475607
ENSG00000100311	PDGFB subnetwork	0.324660178	0.951656627
KEGG_MELANOMA	KEGG_MELANOMA	0.324641946	0.951777465
ENSG00000089289	IGBP1 subnetwork	0.324572148	0.951787867
REACTOME_MICRORNA_MIRNA_	REACTOME_MICRORNA_MIRNA_BIOGENESIS	0.324506971	0.951828411
ENSG00000163347	CLDN1 subnetwork	0.325033837	0.951976324
REACTOME_REGULATORY_RNA_F	REACTOME_REGULATORY_RNA_PATHWAYS	0.324506971	0.952019695
GO:0030855	epithelial cell differentiation	0.32520326	0.952095868
ENSG00000164045	CDC25A subnetwork	0.325192654	0.95225677
ENSG00000153147	SMARCA5 subnetwork	0.325539097	0.95295769
MP:0000273	overriding aorta	0.325640537	0.953067362
REACTOME_METABOLISM_OF_PC	REACTOME_METABOLISM_OF_POLYAMINES	0.325888133	0.953315969
GO:0046627	negative regulation of insulin receptor signaling pathway	0.325874991	0.953446894
GO:0032835	glomerulus development	0.325844222	0.953517739
REACTOME_ERKS_ARE_INACTIVA	REACTOME_ERKS_ARE_INACTIVATED	0.32605775	0.953595753
REACTOME_FRS2:MEDIATED_ACT	REACTOME_FRS2:MEDIATED_ACTIVATION	0.326158176	0.953725215
GO:0033627	cell adhesion mediated by integrin	0.326504417	0.954665599
ENSG00000197448	GSTK1 subnetwork	0.326810631	0.954842906
GO:0008138	protein tyrosine/serine/threonine phosphatase activity	0.326655554	0.954874875
ENSG00000111142	METAP2 subnetwork	0.326944461	0.95490098
MP:0004890	decreased energy expenditure	0.326780384	0.954993995
ENSG00000160973	FOXH1 subnetwork	0.327214225	0.955046972
GO:0007568	aging	0.326934365	0.955062025
ENSG00000071909	MYO3B subnetwork	0.327133494	0.95519896
ENSG00000133935	C14orf1 subnetwork	0.327211799	0.955237905
GO:0005665	DNA-directed RNA polymerase II, core complex	0.32735339	0.955275779
ENSG00000136869	TLR4 subnetwork	0.327109382	0.9553
GO:0034644	cellular response to UV	0.327449433	0.955364635
GO:0017002	activin-activated receptor activity	0.327679252	0.955501198
MP:0005032	abnormal ectoplacental cone morphology	0.327879135	0.955577729
ENSG00000160307	S100B subnetwork	0.327652108	0.955602157
REACTOME_RNA_POLYMERASE_I	REACTOME_RNA_POLYMERASE_III_TRANSCRIPTION	0.327808389	0.955608782
ENSG00000100941	PNN subnetwork	0.327643894	0.95578306
REACTOME_RNA_POLYMERASE_I	REACTOME_RNA_POLYMERASE_III_ABORTIVE_AND_RE1	0.327808389	0.955799561
ENSG00000056678	ENSG00000056678 subnetwork	0.328306188	0.956122856
ENSG00000157500	APPL1 subnetwork	0.328209004	0.95627494
ENSG00000204197	KIFC1 subnetwork	0.328306188	0.956313585
MP:0003135	increased erythroid progenitor cell number	0.329129778	0.958464606
ENSG00000171885	AQP4 subnetwork	0.329258023	0.958592504
MP:0001131	abnormal ovarian follicle morphology	0.329708465	0.959002191
MP:0009399	increased skeletal muscle fiber size	0.329692506	0.959123506
GO:0051897	positive regulation of protein kinase B signaling cascade	0.329582978	0.959137106

GO:0022829	wide pore channel activity	0.329570346	0.959278453
ENSG00000173230	GOLGB1 subnetwork	0.329683715	0.959284718
ENSG00000107130	NCS1 subnetwork	0.330016342	0.959695401
ENSG00000215467	ENSG00000215467 subnetwork	0.329997104	0.95980685
GO:0000795	synaptonemal complex	0.330192253	0.959850746
ENSG00000111361	EIF2B1 subnetwork	0.33016119	0.960021895
GO:0008585	female gonad development	0.330397353	0.960115377
ENSG00000184845	DRD1 subnetwork	0.330351057	0.960167131
ENSG00000176273	SLC35G1 subnetwork	0.330573505	0.960491249
ENSG00000115875	SRSF7 subnetwork	0.33062605	0.960499105
ENSG00000103653	CSK subnetwork	0.330902507	0.960631955
GO:0050817	coagulation	0.330732637	0.960636183
ENSG00000181656	GPR88 subnetwork	0.330817407	0.960653946
ENSG00000196411	EPHB4 subnetwork	0.331019061	0.960788794
GO:0045028	G-protein coupled purinergic nucleotide receptor activity	0.331300375	0.961290963
GO:0001608	G-protein coupled nucleotide receptor activity	0.331300375	0.961481923
ENSG00000115461	IGFBP5 subnetwork	0.332067557	0.962046401
ENSG00000132664	POLR3F subnetwork	0.332000037	0.96204879
ENSG00000144118	RALB subnetwork	0.331657909	0.962142573
GO:0005762	mitochondrial large ribosomal subunit	0.331879949	0.962152778
ENSG00000133627	ACTR3B subnetwork	0.331998046	0.962239635
ENSG00000108515	ENO3 subnetwork	0.331828376	0.962306471
GO:0000315	organellar large ribosomal subunit	0.331879949	0.962343719
ENSG00000100852	ARHGAP5 subnetwork	0.332247699	0.962440523
ENSG00000136631	VPS45 subnetwork	0.331824151	0.962487592
ENSG00000144580	RQCD1 subnetwork	0.332321359	0.962517344
ENSG00000121068	TBX2 subnetwork	0.332475784	0.962732858
ENSG00000171421	MRPL36 subnetwork	0.332673375	0.962814419
ENSG00000104529	EEF1D subnetwork	0.332839523	0.962848941
ENSG00000120533	ENY2 subnetwork	0.332541301	0.962849217
ENSG00000069275	NUCKS1 subnetwork	0.332633332	0.962925911
GO:0000186	activation of MAPKK activity	0.332962508	0.962955265
ENSG00000013275	PSMC4 subnetwork	0.332813519	0.962960396
GO:0030133	transport vesicle	0.333202865	0.96368494
GO:0072215	regulation of metanephros development	0.333500048	0.964174085
GO:0007051	spindle organization	0.333424236	0.964196676
ENSG00000196712	NF1 subnetwork	0.333583633	0.964240506
GO:0006979	response to oxidative stress	0.333846336	0.964949575
ENSG00000196866	HIST1H2AD subnetwork	0.334520949	0.965025651
ENSG00000112081	SRSF3 subnetwork	0.334560792	0.965062142
ENSG00000198374	HIST1H2AL subnetwork	0.334520949	0.965216104
GO:0035173	histone kinase activity	0.33422722	0.965382336
ENSG00000196787	HIST1H2AG subnetwork	0.334520949	0.965406632
GO:0006006	glucose metabolic process	0.334908309	0.965424798
ENSG00000174227	PIGG subnetwork	0.334978713	0.965441466
GO:0007599	hemostasis	0.334813668	0.965450601
ENSG00000183020	AP2A2 subnetwork	0.334743945	0.965473373
GO:0045197	establishment or maintenance of epithelial cell apical/basolateral polarity	0.334206076	0.965503953
ENSG00000177485	ZBTB33 subnetwork	0.334884101	0.965536278
ENSG00000184348	HIST1H2AK subnetwork	0.334520949	0.965597236
ENSG00000139343	SNRPF subnetwork	0.334165709	0.965635501
ENSG00000134216	CHIA subnetwork	0.334377389	0.965754642
ENSG00000196747	HIST1H2AI subnetwork	0.334520949	0.965787915
ENSG00000108518	PFN1 subnetwork	0.334156979	0.965816528

MP:0002637	small uterus	0.335168106	0.965871921
GO:0046850	regulation of bone remodeling	0.334504117	0.965939167
ENSG00000113282	CLINT1 subnetwork	0.335342203	0.966272656
GO:0055002	striated muscle cell development	0.335393779	0.966298995
GO:0009651	response to salt stress	0.335512468	0.9663418
MP:0002424	abnormal reticulocyte morphology	0.33548525	0.966374557
MP:0008565	decreased interferon-beta secretion	0.335652213	0.966535433
ENSG00000063176	SPHK2 subnetwork	0.335741961	0.966660106
ENSG00000183305	MAGEA2B subnetwork	0.335942725	0.966928979
ENSG00000148719	DNAJB12 subnetwork	0.335902323	0.967040535
GO:0005689	U12-type spliceosomal complex	0.336193336	0.967387884
MP:0001729	impaired embryo implantation	0.336512115	0.967652841
MP:0009655	abnormal secondary palate development	0.336578418	0.967698506
ENSG00000141380	SS18 subnetwork	0.336505548	0.967813606
ENSG00000117676	RPS6KA1 subnetwork	0.336462028	0.967866273
ENSG00000105258	POLR2I subnetwork	0.336757517	0.967989782
ENSG00000161980	POLR3K subnetwork	0.337265194	0.968259419
GO:0032768	regulation of monooxygenase activity	0.337246449	0.968390579
GO:0030833	regulation of actin filament polymerization	0.33722661	0.968541421
ENSG00000176102	CSTF3 subnetwork	0.337165419	0.968545062
GO:0030867	rough endoplasmic reticulum membrane	0.337444499	0.968550128
ENSG00000163939	PBRM1 subnetwork	0.337155477	0.968725452
MP:0011405	tubulointerstitial nephritis	0.33705031	0.968752456
GO:0016180	snRNA processing	0.337629826	0.968840722
ENSG00000197530	MIB2 subnetwork	0.337155359	0.968915734
GO:0060068	vagina development	0.337757731	0.968974309
GO:0004143	diacylglycerol kinase activity	0.337909369	0.969186275
ENSG00000165059	PRKACG subnetwork	0.338300011	0.969314398
GO:0006700	C21-steroid hormone biosynthetic process	0.338124965	0.969364955
MP:0000166	abnormal chondrocyte morphology	0.338079763	0.969388355
ENSG00000164344	KLKB1 subnetwork	0.338282107	0.969435737
ENSG00000183943	PRKX subnetwork	0.338241583	0.969498334
GO:0003735	structural constituent of ribosome	0.338483961	0.969633764
KEGG_HUNTINGTONS_DISEASE	KEGG_HUNTINGTONS_DISEASE	0.33857154	0.969786567
MP:0004532	abnormal inner hair cell stereociliary bundle morphology	0.338691375	0.969870791
ENSG00000117480	FAAH subnetwork	0.338811973	0.970121354
GO:0001959	regulation of cytokine-mediated signaling pathway	0.33891339	0.970215264
ENSG00000160094	ZNF362 subnetwork	0.339040856	0.970338486
GO:0006607	NLS-bearing substrate import into nucleus	0.339251949	0.970453657
ENSG00000068323	TFE3 subnetwork	0.339115161	0.970500782
ENSG00000172977	KAT5 subnetwork	0.339206704	0.970516331
ENSG00000173567	GPR113 subnetwork	0.339758453	0.971321087
GO:0055029	nuclear DNA-directed RNA polymerase complex	0.339893586	0.971371362
MP:0005452	abnormal adipose tissue amount	0.339746573	0.97146208
MP:0005560	decreased circulating glucose level	0.340082788	0.97148018
GO:0000428	DNA-directed RNA polymerase complex	0.339893586	0.971561157
ENSG00000130024	PHF10 subnetwork	0.339723165	0.971593353
GO:0003887	DNA-directed DNA polymerase activity	0.340038373	0.971601563
GO:0010951	negative regulation of endopeptidase activity	0.340583554	0.971729382
MP:0001449	abnormal learning/ memory	0.340228761	0.971754831
ENSG00000143727	ACP1 subnetwork	0.340544221	0.971821373
GO:0032039	integrator complex	0.341663223	0.971827017
MP:0003786	premature aging	0.341627788	0.97187014
MP:0000233	abnormal blood flow velocity	0.341586778	0.971874392

ENSG00000130147	SH3BP4 subnetwork	0.340213581	0.971905506
ENSG00000118640	VAMP8 subnetwork	0.340743042	0.971910331
ENSG00000074211	PPP2R2C subnetwork	0.340462846	0.971917675
MP:0009292	increased inguinal fat pad weight	0.340540799	0.97200117
ENSG00000100129	EIF3L subnetwork	0.341560239	0.972024504
GO:0005637	nuclear inner membrane	0.340392461	0.972053084
ENSG00000135213	POM121C subnetwork	0.340447702	0.972078049
ENSG00000160741	CRTC2 subnetwork	0.341523631	0.972135771
ENSG00000105856	HBP1 subnetwork	0.341507678	0.972208171
ENSG00000100568	VTI1B subnetwork	0.341376012	0.97236714
MP:0000523	cortical renal glomerulopathies	0.341507594	0.972397354
MP:0000013	abnormal adipose tissue distribution	0.341430928	0.972401713
MP:0001395	bidirectional circling	0.341369198	0.972527259
GO:0032784	regulation of transcription elongation, DNA-dependent	0.341350332	0.972648491
ENSG00000164220	F2RL2 subnetwork	0.341180168	0.97266173
ENSG00000159228	CBR1 subnetwork	0.342048369	0.972697241
ENSG00000159348	CYB5R1 subnetwork	0.34134608	0.972828204
ENSG00000106400	ZNHIT1 subnetwork	0.341176128	0.972841551
ENSG00000143437	ARNT subnetwork	0.34131554	0.972959283
ENSG00000168439	STIP1 subnetwork	0.342318868	0.973411696
MP:0001606	impaired hematopoiesis	0.3425361	0.973941336
ENSG00000154143	PANX3 subnetwork	0.343526154	0.974186677
ENSG00000178177	LCORL subnetwork	0.34346445	0.97421073
ENSG00000163520	FBLN2 subnetwork	0.34341316	0.97421542
GO:0016502	nucleotide receptor activity	0.343371169	0.974278241
ENSG00000132356	PRKAA1 subnetwork	0.343668908	0.974303136
REACTOME_ABC:FAMILY_PROTEIN	REACTOME_ABC:FAMILY_PROTEINS_MEDIATED_TRANSI	0.343228916	0.974311749
MP:0002675	asthenozoospermia	0.34364132	0.974404647
MP:0000484	abnormal pulmonary artery morphology	0.342732119	0.974412507
ENSG00000172725	CORO1B subnetwork	0.343212432	0.97443281
GO:0001614	purinergic nucleotide receptor activity	0.343371169	0.974467054
GO:0008212	mineralocorticoid metabolic process	0.343168869	0.974486036
ENSG00000148158	SNX30 subnetwork	0.343329177	0.97449118
ENSG00000116191	RALGPS2 subnetwork	0.342918822	0.974597166
MP:0005311	abnormal circulating amino acid level	0.343830408	0.974627443
ENSG00000120875	DUSP4 subnetwork	0.343007913	0.974650621
ENSG00000197969	VPS13A subnetwork	0.343152691	0.974655674
GO:0048041	focal adhesion assembly	0.342874348	0.97468932
ENSG00000128591	FLNC subnetwork	0.343914505	0.974690402
GO:0042753	positive regulation of circadian rhythm	0.343139201	0.974796275
GO:0030128	clathrin coat of endocytic vesicle	0.343101365	0.974839899
MP:0008872	abnormal physiological response to xenobiotic	0.344049619	0.975062875
GO:0051785	positive regulation of nuclear division	0.344607646	0.975178675
GO:0045840	positive regulation of mitosis	0.344607646	0.975367079
ENSG00000165029	ABCA1 subnetwork	0.344805581	0.975371693
MP:0005122	increased circulating thyroid-stimulating hormone level	0.344534199	0.975371981
ENSG00000197635	DPP4 subnetwork	0.344719488	0.975395906
GO:0010510	regulation of acetyl-CoA biosynthetic process from pyruv	0.345114315	0.975424383
ENSG00000206274	ENSG00000206274 subnetwork	0.344325723	0.975439954
GO:0004175	endopeptidase activity	0.34452145	0.975541167
ENSG00000179364	PACS2 subnetwork	0.345204584	0.97557377
GO:0006086	acetyl-CoA biosynthetic process from pyruvate	0.345114315	0.97561258
GO:0005525	GTP binding	0.344476851	0.975613764
ENSG00000206383	HSPA1L subnetwork	0.344325723	0.975628627

GO:0060056	mammary gland involution	0.345070175	0.975656117
GO:0032414	positive regulation of ion transmembrane transporter ac	0.344945802	0.975694981
ENSG00000198625	MDM4 subnetwork	0.345018635	0.975709323
ENSG00000132139	GAS2L2 subnetwork	0.344470023	0.975783063
ENSG00000134852	CLOCK subnetwork	0.345449626	0.975882013
ENSG00000188021	UBQLN2 subnetwork	0.345409835	0.975964134
MP:0005006	abnormal osteoblast physiology	0.34670586	0.976888334
GO:0045182	translation regulator activity	0.346686973	0.977018454
ENSG00000172850	LSM2 subnetwork	0.346187561	0.977103794
ENSG00000109133	TMEM33 subnetwork	0.346673887	0.977196693
ENSG00000011007	TCEB3 subnetwork	0.346283457	0.977204467
ENSG00000111987	ENSG00000111987 subnetwork	0.346187561	0.977291988
ENSG00000090615	GOLGA3 subnetwork	0.346917485	0.977315527
GO:0030971	receptor tyrosine kinase binding	0.346649123	0.977346154
ENSG00000125170	DOK4 subnetwork	0.346997774	0.977358309
MP:0005418	abnormal circulating hormone level	0.346402744	0.977410972
ENSG00000204392	LSM2 subnetwork	0.346187561	0.977480254
GO:0043470	regulation of carbohydrate catabolic process	0.346647787	0.977534141
ENSG00000167258	CDK12 subnetwork	0.346046504	0.977534695
GO:0046889	positive regulation of lipid biosynthetic process	0.346591086	0.977650568
GO:0030168	platelet activation	0.346185425	0.97765896
GO:0004437	inositol or phosphatidylinositol phosphatase activity	0.346146981	0.977673926
GO:0043471	regulation of cellular carbohydrate catabolic process	0.346647787	0.977722201
ENSG00000072958	AP1M1 subnetwork	0.34656548	0.97776174
ENSG00000163430	FSTL1 subnetwork	0.347269864	0.978044564
MP:0000288	abnormal pericardium morphology	0.347482076	0.978452084
REACTOME_CELL_SURFACE_INTERACTIONS_AT_THE_VA	REACTOME_CELL_SURFACE_INTERACTIONS_AT_THE_VA	0.347748723	0.978738721
GO:0060669	embryonic placenta morphogenesis	0.347730791	0.978888249
MP:0011095	complete embryonic lethality between implantation and	0.348129315	0.979138692
ENSG00000088179	PTPN4 subnetwork	0.348086985	0.979230622
GO:0019229	regulation of vasoconstriction	0.348034791	0.979274611
GO:0009755	hormone-mediated signaling pathway	0.347990637	0.979299424
ENSG00000211614	ENSG00000211614 subnetwork	0.348798501	0.979429228
ENSG00000091428	RAPGEF4 subnetwork	0.348292815	0.97943038
ENSG00000132589	FLOT2 subnetwork	0.348842188	0.979433167
MP:0011094	complete embryonic lethality before implantation	0.34873171	0.979444444
ENSG00000101331	C20orf160 subnetwork	0.348618802	0.97945573
REACTOME_SHC1_EVENTS_IN_ERBB4_SIGNALING	REACTOME_SHC1_EVENTS_IN_ERBB4_SIGNALING	0.348674432	0.979459667
ENSG00000087008	ACOX3 subnetwork	0.348606538	0.979595553
ENSG00000196776	CD47 subnetwork	0.348976632	0.979628566
GO:0006639	acylglycerol metabolic process	0.348559214	0.979677914
ENSG00000169813	HNRNPF subnetwork	0.348531518	0.979798658
ENSG00000143368	SF3B4 subnetwork	0.349189738	0.979967458
GO:0032986	protein-DNA complex disassembly	0.349391531	0.980112875
GO:0006337	nucleosome disassembly	0.349391531	0.980300421
ENSG00000075413	MARK3 subnetwork	0.349572288	0.98036534
ENSG00000125743	SNRPD2 subnetwork	0.349693277	0.98040153
GO:0031498	chromatin disassembly	0.349391531	0.980488038
GO:0070717	poly-purine tract binding	0.349800711	0.980529535
MP:0001675	abnormal ectoderm development	0.349680287	0.98053165
ENSG00000135903	PAX3 subnetwork	0.350001967	0.980925076
ENSG00000092199	HNRNPC subnetwork	0.350499376	0.982336645
GO:0030658	transport vesicle membrane	0.350602282	0.982445081
ENSG00000183023	SLC8A1 subnetwork	0.350491937	0.982486146

ENSG00000158792	SPATA2L subnetwork	0.350760923	0.982677617
ENSG00000154188	ANGPT1 subnetwork	0.350936824	0.983091465
ENSG00000124155	PIGT subnetwork	0.351235802	0.983361954
ENSG00000108465	CDK5RAP3 subnetwork	0.351293777	0.983384205
ENSG00000132669	RIN2 subnetwork	0.351208915	0.983435115
ENSG00000160967	ENSG00000160967 subnetwork	0.351075266	0.983466972
GO:0030880	RNA polymerase complex	0.351178168	0.983556022
ENSG00000163083	INHBB subnetwork	0.351710461	0.984197978
ENSG00000148082	SHC3 subnetwork	0.351925487	0.984658658
ENSG00000106804	C5 subnetwork	0.352006358	0.984709247
ENSG00000105327	BBC3 subnetwork	0.35209635	0.984807472
MP:0001723	disorganized yolk sac vascular plexus	0.352227476	0.984899009
MP:0004779	abnormal production of surfactant	0.352206092	0.985000953
GO:0002688	regulation of leukocyte chemotaxis	0.352398674	0.985101924
MP:0005182	increased circulating estradiol level	0.35300371	0.986048725
ENSG00000123612	ACVR1C subnetwork	0.352999129	0.986226918
ENSG00000167088	SNRPD1 subnetwork	0.352951149	0.986243336
REACTOME_TRAF6_MEDIATED_IF	REACTOME_TRAF6_MEDIATED_IRF7_ACTIVATION	0.352888163	0.986250238
ENSG00000104320	NBN subnetwork	0.352881858	0.986438095
ENSG00000134184	GSTM1 subnetwork	0.35329653	0.986510654
GO:0060402	calcium ion transport into cytosol	0.353355624	0.98651322
ENSG00000095637	SORBS1 subnetwork	0.353437051	0.986515785
GO:0008408	3'-5' exonuclease activity	0.353564709	0.986584902
ENSG00000113595	TRIM23 subnetwork	0.353290028	0.986679353
MP:0000239	absent common myeloid progenitor cells	0.354231463	0.98781832
GO:0070330	aromatase activity	0.354436899	0.987901235
ENSG00000087365	SF3B2 subnetwork	0.354182422	0.98790154
ENSG00000112742	TTK subnetwork	0.354342028	0.987963139
GO:0001741	XY body	0.354405437	0.987965426
MP:0002467	impaired neutrophil phagocytosis	0.354167531	0.988060837
GO:0042634	regulation of hair cycle	0.354563158	0.988159894
MP:0001762	polyuria	0.354632448	0.9882191
MP:0004057	thin myocardium compact layer	0.354729366	0.988287775
ENSG00000164086	DUSP7 subnetwork	0.355113548	0.988994307
KEGG_REGULATION_OF_ACTIN_C	KEGG_REGULATION_OF_ACTIN_CYTOSKELETON	0.355102791	0.989163029
ENSG00000153989	NUS1 subnetwork	0.355644504	0.989727066
REACTOME_FACILITATIVE_NA:INI	REACTOME_FACILITATIVE_NA:INDEPENDENT_GLUCOSE	0.35532824	0.989755265
ENSG00000197561	ELANE subnetwork	0.355562351	0.989817975
ENSG00000135074	ADAM19 subnetwork	0.355631213	0.989886256
MP:0005039	hypoxia	0.355525537	0.989929831
GO:0048286	lung alveolus development	0.355467204	0.990003794
MP:0002796	impaired skin barrier function	0.355860971	0.990212242
ENSG00000110244	APOA4 subnetwork	0.35647742	0.990876396
GO:0070076	histone lysine demethylation	0.356677459	0.990921127
ENSG00000189369	GSPT2 subnetwork	0.356451473	0.99096933
GO:0001046	core promoter sequence-specific DNA binding	0.3563857	0.990977088
MP:0005266	abnormal metabolism	0.356218676	0.991019326
GO:0030010	establishment of cell polarity	0.356657405	0.991042376
MP:0006317	decreased urine sodium level	0.356621969	0.991059603
ENSG00000197756	RPL37A subnetwork	0.357126365	0.991082562
MP:0002703	abnormal renal tubule morphology	0.356366474	0.991126894
GO:0020037	heme binding	0.35660813	0.991228236
GO:0016863	intramolecular oxidoreductase activity, transposing C=C	0.356964408	0.991257089
MP:0002160	abnormal reproductive system morphology	0.357121689	0.991260393

GO:0014909	smooth muscle cell migration	0.357067427	0.991305991
ENSG00000166986	MARS subnetwork	0.356362075	0.991314643
MP:0004924	abnormal behavior	0.357266419	0.991329807
ENSG00000116353	MECR subnetwork	0.357345359	0.991378659
ENSG00000104497	SNX16 subnetwork	0.3568936	0.991386157
ENSG00000146674	IGFBP3 subnetwork	0.356964401	0.991444507
GO:0004532	exoribonuclease activity	0.357547558	0.991459041
ENSG00000074696	PTPLAD1 subnetwork	0.357511834	0.991504625
GO:0060761	negative regulation of response to cytokine stimulus	0.357454108	0.991521903
MP:0001633	poor circulation	0.357733644	0.991556604
ENSG00000165934	CPSF2 subnetwork	0.357708971	0.991658804
MP:0002073	abnormal hair growth	0.357984758	0.992105263
ENSG00000113356	POLR3G subnetwork	0.358378722	0.99270362
ENSG00000083642	PDS5B subnetwork	0.358361648	0.992805959
GO:0005159	insulin-like growth factor receptor binding	0.358341531	0.992917767
ENSG00000100028	SNRPD3 subnetwork	0.358588604	0.993213949
ENSG00000008300	CELSR3 subnetwork	0.358958282	0.993258004
MP:0001183	overexpanded pulmonary alveoli	0.358672377	0.993281191
MP:0003172	abnormal lysosome physiology	0.359103457	0.993298193
GO:0051053	negative regulation of DNA metabolic process	0.3590521	0.993362832
MP:0000091	short premaxilla	0.359761423	0.993394099
MP:0001346	abnormal lacrimal gland morphology	0.358952986	0.993445093
ENSG00000159352	PSMD4 subnetwork	0.358833522	0.993499152
GO:0030041	actin filament polymerization	0.35974745	0.993533835
ENSG00000184489	PTP4A3 subnetwork	0.360010011	0.993546872
REACTOME_MEIOSIS	REACTOME_MEIOSIS	0.358914238	0.993547476
ENSG00000085063	CD59 subnetwork	0.360131536	0.993577465
ENSG00000117395	EBNA1BP2 subnetwork	0.359704778	0.993617221
ENSG00000187446	ENSG00000187446 subnetwork	0.359953257	0.993639609
GO:0032677	regulation of interleukin-8 production	0.359561726	0.993643032
ENSG00000132383	RPA1 subnetwork	0.359367613	0.993658261
ENSG00000105726	ATP13A1 subnetwork	0.35966611	0.993710041
ENSG00000147202	DIAPH2 subnetwork	0.359324755	0.993732355
GO:0004693	cyclin-dependent protein kinase activity	0.360126299	0.993735913
ENSG00000134070	IRAK2 subnetwork	0.359558675	0.993820542
ENSG00000089234	BRAP subnetwork	0.359507621	0.993838194
GO:0005881	cytoplasmic microtubule	0.36027498	0.993879084
ENSG00000185721	DRG1 subnetwork	0.36048324	0.99413476
GO:0031098	stress-activated protein kinase signaling cascade	0.36054298	0.994182774
KEGG_BASE_EXCISION_REPAIR	KEGG_BASE_EXCISION_REPAIR	0.360448185	0.994218134
ENSG00000136715	SAP130 subnetwork	0.360691289	0.994502814
GO:0032092	positive regulation of protein binding	0.361025934	0.994582943
ENSG00000123064	DDX54 subnetwork	0.360927222	0.994693418
ENSG00000127481	UBR4 subnetwork	0.360899621	0.994748687
GO:0031965	nuclear membrane	0.36101084	0.99476003
ENSG00000162129	CLPB subnetwork	0.360877368	0.994841493
GO:0031435	mitogen-activated protein kinase kinase kinase binding	0.361184735	0.994883808
ENSG00000181852	RNF41 subnetwork	0.361453025	0.995428143
MP:0009264	failure of eyelid fusion	0.362147778	0.996397155
ENSG00000111596	CNOT2 subnetwork	0.362126741	0.996499438
ENSG00000085274	MYNN subnetwork	0.362246232	0.996500749
GO:0070192	chromosome organization involved in meiosis	0.362362144	0.996538821
MP:0000427	abnormal hair cycle	0.362094691	0.996629845
ENSG00000206385	ENSG00000206385 subnetwork	0.362086088	0.996779026

ENSG00000137337	MDC1 subnetwork	0.362086088	0.996965724
ENSG00000163950	SLBP subnetwork	0.362037573	0.996983889
MP:0003157	impaired muscle relaxation	0.362793979	0.997149
GO:0006325	chromatin organization	0.362754907	0.997176515
GO:0045987	positive regulation of smooth muscle contraction	0.362710483	0.997288199
GO:0006662	glycerol ether metabolic process	0.362687567	0.99738122
GO:0070988	demethylation	0.363121723	0.997533632
ENSG00000037241	RPL26L1 subnetwork	0.363006596	0.997542056
ENSG00000185024	BRF1 subnetwork	0.363077896	0.997607924
GO:0004252	serine-type endopeptidase activity	0.363364862	0.997703081
MP:0002599	increased mean platelet volume	0.36324389	0.997720904
ENSG00000120549	KIAA1217 subnetwork	0.363422727	0.997750187
GO:0051017	actin filament bundle assembly	0.363354373	0.997833396
ENSG00000134398	ERN2 subnetwork	0.363548033	0.998030614
GO:0001935	endothelial cell proliferation	0.364098797	0.999197611
GO:0043405	regulation of MAP kinase activity	0.364355655	0.999300634
ENSG00000165119	HNRNPK subnetwork	0.364229956	0.99931903
ENSG00000100462	PRMT5 subnetwork	0.364314552	0.999356463
ENSG00000125753	VASP subnetwork	0.36409622	0.999374767
REACTOME_SYNTHESIS_OF_SUBS	REACTOME_SYNTHESIS_OF_SUBSTRATES_IN_N:GLYCAN	0.364941629	0.999748557
ENSG00000104915	STX10 subnetwork	0.364748137	0.999916123
GO:0032872	regulation of stress-activated MAPK cascade	0.364937586	0.999925484
ENSG00000140264	SERF2 subnetwork	0.364713815	0.999953393
ENSG00000180176	TH subnetwork	0.364673816	0.999981354
MP:0005599	increased cardiac muscle contractility	0.365285068	1
GO:0031280	negative regulation of cyclase activity	1	1
MP:0009764	decreased sensitivity to induced morbidity/mortality	0.365344124	1.000027917
ENSG00000197003	ENSG00000197003 subnetwork	0.364916645	1.000065213
GO:0007194	negative regulation of adenylate cyclase activity	1	1.000069152
ENSG00000184708	EIF4ENIF1 subnetwork	0.365256939	1.00012102
GO:0051350	negative regulation of lyase activity	1	1.000138313
REACTOME_INTEGRIN_ALPHAIIIB	REACTOME_INTEGRIN_ALPHAIIIB_BETA3_SIGNALING	0.365181294	1.000148976
REACTOME_ADHERENS_JUNCTIO	REACTOME_ADHERENS_JUNCTIONS_INTERACTIONS	0.999999998	1.000207483
ENSG00000197369	ENSG00000197369 subnetwork	0.364916645	1.000251584
GO:0021953	central nervous system neuron differentiation	0.999999996	1.000276663
GO:0043092	L-amino acid import	0.999999996	1.000345853
GO:0007193	adenylate cyclase-inhibiting G-protein coupled receptor	0.999999993	1.000415053
GO:0051960	regulation of nervous system development	0.999999992	1.000484262
GO:0030815	negative regulation of cAMP metabolic process	0.999999992	1.00055348
GO:0030818	negative regulation of cAMP biosynthetic process	0.999999992	1.000622708
MP:0003484	abnormal channel response	0.999999989	1.000691946
ENSG00000198954	KIAA1279 subnetwork	0.365650307	1.000725716
GO:0042471	ear morphogenesis	0.999999985	1.000761193
GO:0030803	negative regulation of cyclic nucleotide biosynthetic process	0.999999983	1.00083045
GO:0030809	negative regulation of nucleotide biosynthetic process	0.999999983	1.000899716
MP:0006144	increased systemic arterial systolic blood pressure	0.365791302	1.000911628
GO:0030800	negative regulation of cyclic nucleotide metabolic process	0.999999983	1.000968992
GO:0045980	negative regulation of nucleotide metabolic process	0.999999981	1.001038278
GO:0008343	adult feeding behavior	0.999999975	1.001107573
MP:0008536	enlarged third ventricle	0.999999972	1.001176878
GO:0050767	regulation of neurogenesis	0.999999958	1.001246192
GO:0021510	spinal cord development	0.999999953	1.001315516
GO:0045664	regulation of neuron differentiation	0.999999949	1.00138485
MP:0009293	decreased inguinal fat pad weight	0.366042744	1.001432292

ENSG00000151835	SACS subnetwork	0.366097895	1.001441324
GO:0032281	alpha-amino-3-hydroxy-5-methyl-4-isoxazolepropionic acid	0.999999925	1.001454193
GO:0021517	ventral spinal cord development	0.999999888	1.001523546
GO:0045686	negative regulation of glial cell differentiation	0.999999879	1.001592908
GO:0004497	monooxygenase activity	0.3663168	1.001608106
MP:0004753	abnormal miniature excitatory postsynaptic currents	0.999999858	1.00166228
MP:0006060	increased cerebral infarction size	0.366279805	1.001710673
GO:0030534	adult behavior	0.999999854	1.001728198
GO:0006817	phosphate ion transport	0.99999985	1.001797589
GO:0043090	amino acid import	0.999999821	1.00186699
GO:0032279	asymmetric synapse	0.999999814	1.0019364
GO:0072079	nephron tubule formation	0.999999794	1.00200582
MP:0002882	abnormal neuron morphology	0.999999759	1.002075249
REACTOME_NEUROTRANSMITTER_RELEASE_CYCLE	REACTOME_NEUROTRANSMITTER_RELEASE_CYCLE	0.999999731	1.002144689
GO:0006814	sodium ion transport	0.999999724	1.002214137
GO:0014014	negative regulation of gliogenesis	0.999999712	1.002283596
GO:0014013	regulation of gliogenesis	0.999999683	1.002349598
GO:0021954	central nervous system neuron development	0.999999674	1.002419075
GO:0045599	negative regulation of fat cell differentiation	0.366867911	1.002452164
GO:0042472	inner ear morphogenesis	0.999999658	1.002488562
ENSG00000131437	KIF3A subnetwork	0.366957009	1.002516716
GO:0033013	tetrapyrrole metabolic process	0.366820142	1.002517651
REACTOME_TRANSMISSION_ACROSS_CHEMICAL_SYNAPSE	REACTOME_TRANSMISSION_ACROSS_CHEMICAL_SYNAPSE	0.999999656	1.002558059
GO:0050885	neuromuscular process controlling balance	0.999999499	1.002627565
GO:0021846	cell proliferation in forebrain	0.999999496	1.002697081
GO:0006778	porphyrin-containing compound metabolic process	0.366820142	1.002703958
GO:0034332	adherens junction organization	0.999999457	1.002766607
GO:0003309	type B pancreatic cell differentiation	0.366789006	1.002788104
GO:0007420	brain development	0.999999445	1.002836142
ENSG00000145191	EIF2B5 subnetwork	0.367344218	1.002848924
ENSG00000077782	FGFR1 subnetwork	0.367115009	1.002869081
MP:0006074	abnormal retinal rod bipolar cell morphology	0.999999397	1.002902219
GO:0015672	monovalent inorganic cation transport	0.999999386	1.002971773
MP:0008014	increased lung tumor incidence	0.367331956	1.003035084
GO:0007605	sensory perception of sound	0.999999296	1.003041337
MP:0003461	abnormal response to novel object	0.999999257	1.003110911
ENSG00000171942	OR10H2 subnetwork	0.367552331	1.00312616
MP:0003312	abnormal locomotor coordination	0.367823164	1.003161506
ENSG00000168497	SDPR subnetwork	0.367511101	1.00317313
ENSG00000113739	STC2 subnetwork	0.999999174	1.003180494
ENSG00000173540	GMPPB subnetwork	0.367303523	1.003193465
MP:0008547	abnormal neocortex morphology	0.999999066	1.003250087
ENSG00000118705	RPN2 subnetwork	0.367814271	1.00331046
GO:0035249	synaptic transmission, glutamatergic	0.999999008	1.00331622
ENSG00000137843	PAK6 subnetwork	0.367711222	1.003320349
GO:0072078	nephron tubule morphogenesis	0.999998938	1.003382363
ENSG00000075340	ADD2 subnetwork	0.367979698	1.003411198
MP:0004100	abnormal spinal cord interneuron morphology	0.99999891	1.003451984
GO:0043025	neuronal cell body	0.999998658	1.003518146
GO:0043406	positive regulation of MAP kinase activity	0.368168548	1.003557532
GO:0007156	homophilic cell adhesion	0.999998642	1.003587786
ENSG00000180855	ZNF443 subnetwork	0.368078726	1.00360519
GO:0048741	skeletal muscle fiber development	0.36825099	1.003630974
GO:0003229	ventricular cardiac muscle tissue development	0.999998566	1.003657436

GO:0061384	heart trabecula morphogenesis	0.368146255	1.003669385
GO:0021515	cell differentiation in spinal cord	0.999998498	1.003727096
MP:0000467	abnormal esophagus morphology	0.999998461	1.003796765
GO:0030425	dendrite	0.999998391	1.003866445
GO:0007270	neuron-neuron synaptic transmission	0.999998263	1.003936133
GO:0044297	cell body	0.99999823	1.004005832
GO:0090103	cochlea morphogenesis	0.999998182	1.00407554
MP:0005272	abnormal temporal bone morphology	0.999997934	1.004145258
MP:0001363	increased anxiety-related response	0.999997844	1.004214985
GO:0060174	limb bud formation	0.999997738	1.004284722
GO:0003208	cardiac ventricle morphogenesis	0.999997732	1.004354469
ENSG00000198898	CAPZA2 subnetwork	0.36860529	1.004361111
GO:0048839	inner ear development	0.999997731	1.004424226
GO:0043112	receptor metabolic process	0.368584807	1.00446379
GO:0007269	neurotransmitter secretion	0.999997687	1.004493992
ENSG00000198929	NOS1AP subnetwork	0.999997147	1.004556821
MP:0001488	increased startle reflex	0.999996378	1.004616186
REACTOME_SEROTONIN_NEUROTRANSMITTER_RELEASE	REACTOME_SEROTONIN_NEUROTRANSMITTER_RELEASE	0.999995819	1.004679033
REACTOME_DOPAMINE_NEUROTRANSMITTER_RELEASE	REACTOME_DOPAMINE_NEUROTRANSMITTER_RELEASE	0.999995819	1.004748836
GO:0015077	monovalent inorganic cation transmembrane transporter activity	0.99999529	1.004818649
GO:0030900	forebrain development	0.999995095	1.004888472
GO:0002052	positive regulation of neuroblast proliferation	0.999994984	1.004958304
GO:0043583	ear development	0.999994426	1.005024672
GO:0007212	dopamine receptor signaling pathway	0.999994257	1.005094523
GO:0030672	synaptic vesicle membrane	0.999994088	1.005164385
GO:0051952	regulation of amine transport	0.999993834	1.005234256
MP:0002805	abnormal conditioned taste aversion behavior	0.999993568	1.005293709
GO:0050905	neuromuscular process	0.999993533	1.005363598
GO:0072175	epithelial tube formation	0.999993301	1.005433498
GO:0051101	regulation of DNA binding	0.369039851	1.005489724
ENSG00000155363	MOV10 subnetwork	0.999993106	1.00549993
GO:0097060	synaptic membrane	0.999992694	1.005562895
GO:0007618	mating	0.999992564	1.005632823
MP:0005270	abnormal zygomatic bone morphology	0.999992184	1.005702761
ENSG00000152601	MBNL1 subnetwork	0.999991255	1.005758798
REACTOME_NEURONAL_SYSTEM	REACTOME_NEURONAL_SYSTEM	0.999991173	1.005828754
ENSG00000086589	RBM22 subnetwork	0.369248191	1.005858941
MP:0002945	abnormal inhibitory postsynaptic currents	0.999990784	1.00589872
MP:0009747	impaired behavioral response to xenobiotic	0.999990727	1.005965217
GO:0050954	sensory perception of mechanical stimulus	0.999990634	1.006035202
GO:0021781	glial cell fate commitment	0.999990324	1.006101718
ENSG00000012660	ELOVL5 subnetwork	0.999989935	1.006171723
MP:0005106	abnormal incus morphology	0.999989018	1.006238258
GO:0044319	wound healing, spreading of cells	0.999988871	1.006308281
ENSG00000003393	ALS2 subnetwork	0.369536401	1.006366833
GO:0001505	regulation of neurotransmitter levels	0.999988582	1.006378314
GO:0055010	ventricular cardiac muscle tissue morphogenesis	0.999988097	1.006448357
ENSG00000137709	POU2F3 subnetwork	0.369711539	1.006456984
MP:0004725	decreased platelet serotonin level	0.369654936	1.006476684
GO:0035313	wound healing, spreading of epidermal cells	0.999988044	1.00651493
MP:0002272	abnormal nervous system electrophysiology	0.999987695	1.006584992
MP:0003235	abnormal alisphenoid bone morphology	0.999987355	1.006651584
MP:0000937	abnormal motor neuron morphology	0.999986951	1.006718184
GO:0060560	developmental growth involved in morphogenesis	0.999986937	1.006788275

GO:0001838	embryonic epithelial tube formation	0.999986554	1.006858376
GO:0016358	dendrite development	0.999986461	1.006928487
ENSG00000157193	LRP8 subnetwork	0.999986365	1.006998607
GO:0006750	glutathione biosynthetic process	0.999985573	1.007058291
GO:0007416	synapse assembly	0.999985292	1.00712843
GO:0010975	regulation of neuron projection development	0.999984969	1.007198579
GO:0015800	acidic amino acid transport	0.999984953	1.007268738
GO:0045211	postsynaptic membrane	0.999984721	1.00733194
GO:0005925	focal adhesion	0.370148007	1.007340976
ENSG00000124217	MOCS3 subnetwork	0.370028956	1.00736219
ENSG00000067715	SYT1 subnetwork	0.999984616	1.007402118
REACTOME_NOREPINEPHRINE_N	REACTOME_NOREPINEPHRINE_NEUROTRANSMITTER_R	0.999984314	1.007468822
GO:0006939	smooth muscle contraction	0.370518693	1.007491225
MP:0001152	Leydig cell hyperplasia	0.370147335	1.007527279
ENSG00000106638	TBL2 subnetwork	0.999984149	1.007535535
MP:0011348	abnormal renal glomerulus basement membrane morph	0.370290907	1.007579959
GO:0022890	inorganic cation transmembrane transporter activity	0.999983649	1.007602258
MP:0004132	absent embryonic cilia	0.370513455	1.007668145
GO:0042490	mechanoreceptor differentiation	0.999983636	1.007672474
MP:0009712	impaired conditioned place preference behavior	0.999983106	1.0077427
GO:0034067	protein localization in Golgi apparatus	0.370485668	1.007798928
GO:0006836	neurotransmitter transport	0.999983027	1.007812936
GO:0007339	binding of sperm to zona pellucida	0.370450841	1.00784658
GO:0015813	L-glutamate transport	0.999983004	1.007883181
GO:0050884	neuromuscular process controlling posture	0.999982836	1.007953436
ENSG00000144596	ENSG00000144596 subnetwork	0.999981678	1.008023702
GO:0007218	neuropeptide signaling pathway	0.999981219	1.008090491
ENSG00000158169	FANCC subnetwork	0.999980911	1.008153803
ENSG00000173113	TRMT112 subnetwork	0.370798193	1.008154784
GO:0015812	gamma-aminobutyric acid transport	0.999979364	1.008213638
GO:0015837	amine transport	0.999979237	1.008283941
GO:0001764	neuron migration	0.999978688	1.008354254
ENSG00000089041	P2RX7 subnetwork	0.370961047	1.008411819
MP:0005132	decreased luteinizing hormone level	0.999978163	1.008424576
GO:0021872	forebrain generation of neurons	0.999975581	1.00848096
GO:0010092	specification of organ identity	0.999975401	1.008551301
MP:0003056	abnormal hyoid bone morphology	0.999974936	1.008621652
GO:2000677	regulation of transcription regulatory region DNA binding	0.999974539	1.008688525
GO:0043094	cellular metabolic compound salvage	0.999973663	1.008751919
GO:0021889	olfactory bulb interneuron differentiation	0.999972821	1.008822298
MP:0000458	abnormal mandible morphology	0.99997282	1.008892688
GO:0060284	regulation of cell development	0.999971885	1.008959598
MP:0000851	cerebellum hypoplasia	0.999970951	1.009019539
GO:0045761	regulation of adenylate cyclase activity	0.999970147	1.009086468
GO:0014048	regulation of glutamate secretion	0.999967897	1.009153406
GO:0021522	spinal cord motor neuron differentiation	0.999967834	1.009223843
GO:0006695	cholesterol biosynthetic process	0.371334523	1.009268833
GO:0032480	negative regulation of type I interferon production	0.371462665	1.009283869
MP:0005107	abnormal stapes morphology	0.999967455	1.0092908
GO:0043202	lysosomal lumen	0.371403876	1.009322503
ENSG00000065268	WDR18 subnetwork	0.999967437	1.009361257
GO:0050807	regulation of synapse organization	0.99996729	1.009431723
GO:0061333	renal tubule morphogenesis	0.99996668	1.009502199
ENSG00000084234	APLP2 subnetwork	0.999966367	1.009572685

MP:0003635	abnormal synaptic transmission	0.999966334	1.009643181
GO:0003002	regionalization	0.999965989	1.009713687
GO:0051588	regulation of neurotransmitter transport	0.999965013	1.009777219
MP:0002998	abnormal bone remodeling	0.371781486	1.009797048
GO:0019787	small conjugating protein ligase activity	0.371731589	1.009817309
GO:0002089	lens morphogenesis in camera-type eye	0.999964432	1.009847744
GO:0048713	regulation of oligodendrocyte differentiation	0.999964395	1.009918279
MP:0003008	enhanced long term potentiation	0.999963149	1.009985331
GO:0050750	low-density lipoprotein particle receptor binding	0.999962076	1.010038421
ENSG00000153487	ING1 subnetwork	0.372394675	1.010058954
GO:0034763	negative regulation of transmembrane transport	0.372344949	1.010088447
GO:0046928	regulation of neurotransmitter secretion	0.999960651	1.010105491
ENSG00000163629	PTPN13 subnetwork	0.372054121	1.010134637
GO:0034654	nucleobase-containing compound biosynthetic process	0.99996017	1.010176064
MP:0008657	increased interleukin-1 beta secretion	0.372010252	1.010237963
GO:0014047	glutamate secretion	0.99995873	1.010246646
ENSG00000141447	OSBPL1A subnetwork	0.372332456	1.010256174
ENSG00000162337	LRP5 subnetwork	0.99995765	1.010317238
GO:0002053	positive regulation of mesenchymal cell proliferation	0.372191736	1.010372488
MP:0008283	small hippocampus	0.999956158	1.010384347
ENSG00000143867	OSR1 subnetwork	0.372332456	1.010442396
GO:0016331	morphogenesis of embryonic epithelium	0.99995394	1.01044797
GO:0030660	Golgi-associated vesicle membrane	0.372555573	1.010453122
GO:0021511	spinal cord patterning	0.999953795	1.010518591
REACTOME_JNK_C:JUN_KINASES	REACTOME_JNK_C:JUN_KINASES_PHOSPHORYLATION_A	0.372287837	1.010527286
GO:0035148	tube formation	0.999952016	1.010585727
MP:0001905	abnormal dopamine level	0.37267611	1.010589319
REACTOME_HDL:MEDIATED_LIPI	REACTOME_HDL:MEDIATED_LIPID_TRANSPORT	0.372798404	1.010622239
GO:0005938	cell cortex	0.372749555	1.010633401
MP:0001900	impaired synaptic plasticity	0.999950851	1.010649378
MP:0004091	abnormal Z lines	0.999950195	1.010716533
GO:0002369	T cell cytokine production	0.373019855	1.010737946
GO:0072522	purine-containing compound biosynthetic process	0.9999488	1.010783697
GO:0017016	Ras GTPase binding	0.372973019	1.010785938
ENSG00000107187	LHX3 subnetwork	0.999947845	1.010854366
ENSG00000136531	SCN2A subnetwork	0.99994708	1.010921549
GO:0051339	regulation of lyase activity	0.999945673	1.010988742
GO:0048709	oligodendrocyte differentiation	0.999945083	1.011059441
GO:0050808	synapse organization	0.99994409	1.011126652
MP:0011448	decreased dopaminergic neuron number	0.999943166	1.011193873
GO:0061351	neural precursor cell proliferation	0.999942094	1.011257606
GO:0021537	telencephalon development	0.999940363	1.011321349
GO:0032769	negative regulation of monooxygenase activity	0.999940132	1.011388597
MP:0002196	absent corpus callosum	0.999939755	1.011459354
GO:0021795	cerebral cortex cell migration	0.999938794	1.01153012
GO:0007610	behavior	0.999938363	1.011600896
GO:0003401	axis elongation	0.999938234	1.011668183
MP:0002206	abnormal CNS synaptic transmission	0.999937964	1.011738978
GO:0071599	otic vesicle development	0.999936872	1.011806285
GO:0005230	extracellular ligand-gated ion channel activity	0.999936796	1.0118771
MP:0002594	low mean erythrocyte cell number	0.373500598	1.011922723
MP:0008911	induced hyperactivity	0.99993606	1.011947925
MP:0003996	clonic seizures	0.999933946	1.01200826
GO:0019935	cyclic-nucleotide-mediated signaling	0.999932414	1.012075604

ENSG00000105649	RAB3A subnetwork	0.999932091	1.012142957
GO:0031344	regulation of cell projection organization	0.999931505	1.01221032
MP:0008267	abnormal hippocampus CA3 region morphology	0.99993073	1.012277692
ENSG00000113140	SPARC subnetwork	0.373689791	1.012325239
MP:0001415	increased exploration in new environment	0.999928132	1.012338072
GO:2000311	regulation of alpha-amino-3-hydroxy-5-methyl-4-isoxazo	0.999928119	1.012408964
GO:0005216	ion channel activity	0.999928092	1.012479866
GO:0007626	locomotory behavior	0.999927117	1.012550777
GO:0031279	regulation of cyclase activity	0.999925753	1.012618197
GO:0022843	voltage-gated cation channel activity	0.999925223	1.012689129
GO:0061311	cell surface receptor signaling pathway involved in heart	0.999924351	1.012753065
GO:0048935	peripheral nervous system neuron development	0.999924315	1.012824016
GO:0048934	peripheral nervous system neuron differentiation	0.999924315	1.012894977
GO:0045879	negative regulation of smoothened signaling pathway	0.99992335	1.012962444
ENSG00000174996	KLC2 subnetwork	0.373981113	1.013003495
GO:2000826	regulation of heart morphogenesis	0.999923212	1.013033424
MP:0001364	decreased anxiety-related response	0.99992273	1.013100911
GO:0048715	negative regulation of oligodendrocyte differentiation	0.999921475	1.013164903
GO:0007379	segment specification	0.999921284	1.013235913
GO:0045666	positive regulation of neuron differentiation	0.999921148	1.013306932
ENSG00000166747	AP1G1 subnetwork	0.374134596	1.013313718
GO:0007409	axonogenesis	0.999920028	1.013377962
GO:0001755	neural crest cell migration	0.999917816	1.013431476
REACTOME_ACETYLCHOLINE_NEUR	REACTOME_ACETYLCHOLINE_NEUROTRANSMITTER_REL	0.999917412	1.013492008
GO:0045296	cadherin binding	0.999915128	1.013563065
GO:0060113	inner ear receptor cell differentiation	0.999913902	1.013634133
REACTOME_TRANSPORT_OF_INO	REACTOME_TRANSPORT_OF_INORGANIC_CATIONSANIC	0.999913601	1.01370521
GO:0043587	tongue morphogenesis	0.999912137	1.013776297
GO:0050804	regulation of synaptic transmission	0.999911423	1.013843888
GO:0032640	tumor necrosis factor production	0.374556977	1.013866936
GO:0042249	establishment of planar polarity of embryonic epithelium	0.999911385	1.013914995
GO:0034702	ion channel complex	0.999910492	1.013986112
GO:0045685	regulation of glial cell differentiation	0.999909205	1.014050224
GO:0032680	regulation of tumor necrosis factor production	0.374556977	1.014053309
MP:0001704	abnormal dorsal-ventral axis patterning	0.374468199	1.014055893
GO:0046873	metal ion transmembrane transporter activity	0.999909198	1.014121361
MP:0002774	small prostate gland	0.374819295	1.014155796
MP:0005498	hyporesponsive to tactile stimuli	0.9999057	1.014174968
ENSG00000081052	COL4A4 subnetwork	0.375602371	1.014218922
MP:0003637	cochlear ganglion hypoplasia	0.999904293	1.014239108
ENSG00000072803	FBXW11 subnetwork	0.37479165	1.014287027
GO:0051414	response to cortisol stimulus	0.999903628	1.014303256
GO:0001759	organ induction	0.999902184	1.014363904
MP:0002038	carcinoma	0.375592183	1.014377407
ENSG00000115266	APC2 subnetwork	0.999901775	1.014435088
KEGG_HISTIDINE_METABOLISM	KEGG_HISTIDINE_METABOLISM	0.375872009	1.014504306
GO:0022838	substrate-specific channel activity	0.99990074	1.014506281
MP:0008029	abnormal paraxial mesoderm morphology	0.375766664	1.014537122
GO:0050706	regulation of interleukin-1 beta secretion	0.37558827	1.014563463
GO:2000179	positive regulation of neural precursor cell proliferation	0.999900673	1.014577485
ENSG00000136574	GATA4 subnetwork	0.37584601	1.0146261
GO:0006813	potassium ion transport	0.999900433	1.014648698
GO:0051966	regulation of synaptic transmission, glutamatergic	0.999900159	1.014719921
GO:0050704	regulation of interleukin-1 secretion	0.37558827	1.014749587

GO:0009953	dorsal/ventral pattern formation	0.999900065	1.014791155
REACTOME_AMYLOIDS	REACTOME_AMYLOIDS	0.999895081	1.014851867
ENSG00000174851	YIF1A subnetwork	0.375570871	1.014899083
GO:0043954	cellular component maintenance	0.999894799	1.01491961
MP:0005329	abnormal myocardium layer morphology	0.376175437	1.01494137
REACTOME_HIV_LIFE_CYCLE	REACTOME_HIV_LIFE_CYCLE	0.375273391	1.01494675
GO:0043198	dendritic shaft	0.999892934	1.014983851
GO:0030295	protein kinase activator activity	0.37538241	1.015008261
GO:0010883	regulation of lipid storage	0.375240218	1.015013774
GO:0042698	ovulation cycle	0.375557698	1.015039457
GO:0005313	L-glutamate transmembrane transporter activity	0.999892075	1.015041079
ENSG00000154429	C1orf96 subnetwork	0.375497618	1.015060573
GO:0032204	regulation of telomere maintenance	0.375193999	1.015099192
GO:0021516	dorsal spinal cord development	0.99989116	1.01511236
ENSG00000067369	TP53BP1 subnetwork	0.376410239	1.015116279
ENSG00000124193	SRSF6 subnetwork	0.376713368	1.015141812
GO:0009163	nucleoside biosynthetic process	0.999890039	1.015176628
ENSG00000198373	WWP2 subnetwork	0.376492459	1.015195899
ENSG00000058335	RASGRF1 subnetwork	0.376367058	1.015228938
GO:0021895	cerebral cortex neuron differentiation	0.999887891	1.015230369
ENSG00000135446	CDK4 subnetwork	0.376690945	1.015281845
ENSG00000143507	DUSP10 subnetwork	0.376627321	1.015284642
GO:2001022	positive regulation of response to DNA damage stimulus	0.99988718	1.015301679
GO:0048675	axon extension	0.999885644	1.015365974
GO:0005088	Ras guanyl-nucleotide exchange factor activity	0.376901088	1.015376875
ENSG00000131370	SH3BP5 subnetwork	0.376367022	1.015414911
GO:0050432	catecholamine secretion	0.999883785	1.01541974
GO:0002016	regulation of blood volume by renin-angiotensin	0.999882622	1.015487565
GO:0003156	regulation of organ formation	0.999881798	1.015558912
GO:0051969	regulation of transmission of nerve impulse	0.999880548	1.015626757
GO:0000096	sulfur amino acid metabolic process	0.999879814	1.015698124
ENSG00000196914	ARHGEF12 subnetwork	0.377119947	1.015739894
GO:0048663	neuron fate commitment	0.999879065	1.015765987
GO:0060538	skeletal muscle organ development	0.377760223	1.015771689
MP:0005606	increased bleeding time	0.377205164	1.015782736
ENSG00000188976	NOC2L subnetwork	0.377340901	1.015813528
ENSG00000084674	APOB subnetwork	0.999878673	1.01583386
GO:0030530	heterogeneous nuclear ribonucleoprotein complex	0.377292035	1.015889559
ENSG00000162613	FUBP1 subnetwork	0.999876433	1.015905257
GO:0009913	epidermal cell differentiation	0.377866851	1.015951424
ENSG00000198838	RYR3 subnetwork	0.377757764	1.015957252
GO:0042391	regulation of membrane potential	0.999875342	1.015976664
ENSG00000040199	PHLPP2 subnetwork	0.377701825	1.016005847
ENSG00000176894	PXMP2 subnetwork	0.999874745	1.016044566
MP:0006009	abnormal neuronal migration	0.999873636	1.016112478
MP:0000788	abnormal cerebral cortex morphology	0.999871133	1.016180399
ENSG00000164252	AGGF1 subnetwork	0.377687851	1.016182383
ENSG00000152056	AP1S3 subnetwork	0.377642264	1.016240175
MP:0005105	abnormal middle ear ossicle morphology	0.999867374	1.016241299
ENSG00000198932	GPRASP1 subnetwork	0.999866853	1.016312755
MP:0009142	decreased prepulse inhibition	0.999864194	1.016384221
GO:0048562	embryonic organ morphogenesis	0.999862395	1.016448664
GO:0007214	gamma-aminobutyric acid signaling pathway	0.999860479	1.016499051
GO:0034220	ion transmembrane transport	0.999860315	1.016570544

MP:0002058	neonatal lethality	0.999859125	1.016642048
ENSG00000125351	UPF3B subnetwork	0.378206321	1.016642322
GO:0005231	excitatory extracellular ligand-gated ion channel activity	0.999858932	1.016713562
ENSG00000119392	GLE1 subnetwork	0.379112013	1.016754738
ENSG00000170017	ALCAM subnetwork	0.379174901	1.016760794
ENSG00000069329	VPS35 subnetwork	0.378895253	1.016782133
REACTOME_GABA_RECEPTOR_ACTIVATION	REACTOME_GABA_RECEPTOR_ACTIVATION	0.999858896	1.016785086
GO:0000307	cyclin-dependent protein kinase holoenzyme complex	0.378970448	1.01681553
GO:0015114	phosphate ion transmembrane transporter activity	0.999858422	1.016853103
MP:0003409	decreased width of hypertrophic chondrocyte zone	0.379609097	1.016872952
MP:0004929	decreased epididymis weight	0.379069123	1.016885365
ENSG00000144028	SNRNP200 subnetwork	0.378875271	1.016912837
GO:0007628	adult walking behavior	0.999853946	1.016921129
REACTOME_P75_NTR_RECEPTOR_MEDIATED_SIGNALING	REACTOME_P75_NTR_RECEPTOR_MEDIATED_SIGNALING	0.378732389	1.016937249
GO:0030126	COPI vesicle coat	0.379562634	1.016976151
MP:0004610	small vertebrae	0.379473345	1.016979243
GO:0014032	neural crest cell development	0.99985242	1.016985646
REACTOME_INFLAMMASOMES	REACTOME_INFLAMMASOMES	0.378674007	1.016985951
KEGG_METABOLISM_OF_XENOBIOTICS_BY_CYTOCHROME_P450	KEGG_METABOLISM_OF_XENOBIOTICS_BY_CYTOCHROME_P450	0.378838004	1.016988875
ENSG00000197081	IGF2R subnetwork	0.378607498	1.016998175
GO:0045843	negative regulation of striated muscle tissue development	0.9998425	1.017036099
MP:0009749	enhanced behavioral response to addictive substance	0.999840597	1.017097115
MP:0009278	abnormal bone marrow cell physiology	0.379463398	1.017146239
GO:0002455	humoral immune response mediated by circulating immune cells	0.378585644	1.01714729
GO:0032958	inositol phosphate biosynthetic process	0.999840022	1.017168696
GO:0016577	histone demethylation	0.379871024	1.017176128
MP:0001798	impaired macrophage phagocytosis	0.378537261	1.017177802
GO:0090407	organophosphate biosynthetic process	0.999840022	1.017240287
ENSG00000058799	YIPF1 subnetwork	0.379422386	1.017249545
ENSG00000130589	RP4-697K14.7 subnetwork	0.379820355	1.017252047
GO:0005244	voltage-gated ion channel activity	0.999838261	1.01730133
GO:0015020	glucuronosyltransferase activity	0.380015546	1.017354921
GO:0022832	voltage-gated channel activity	0.999838261	1.017372941
MP:0002066	abnormal motor capabilities/coordination/movement	0.99983655	1.017430482
MP:0002916	increased synaptic depression	0.999830972	1.017480991
MP:0009456	impaired cued conditioning behavior	0.999826833	1.017545589
GO:0015698	inorganic anion transport	0.999826476	1.017617237
GO:0071600	otic vesicle morphogenesis	0.999824983	1.017685374
ENSG00000085741	WNT11 subnetwork	0.999822989	1.017746479
ENSG00000169884	WNT10B subnetwork	0.999822989	1.017818156
ENSG00000105989	WNT2 subnetwork	0.999822989	1.017889844
ENSG00000135925	WNT10A subnetwork	0.999822989	1.017961541
ENSG00000143816	WNT9A subnetwork	0.999822989	1.018033249
ENSG00000082516	GEMIN5 subnetwork	0.380378435	1.018042925
ENSG00000158955	WNT9B subnetwork	0.999822989	1.018104967
ENSG00000061492	WNT8A subnetwork	0.999822989	1.018176694
ENSG00000075290	WNT8B subnetwork	0.999822989	1.018248432
MP:0001463	abnormal spatial learning	0.999821727	1.018316657
MP:0005193	abnormal anterior eye segment morphology	0.999813619	1.018374322
GO:0007224	smoothened signaling pathway	0.999811386	1.018439042
ENSG00000172794	RAB37 subnetwork	0.999807543	1.018500247
GO:0030163	protein catabolic process	0.381091102	1.018552488
ENSG00000154764	WNT7A subnetwork	0.999806355	1.018572033
GO:0048813	dendrite morphogenesis	0.999805342	1.018640305

ENSG00000122484	RPAP2 subnetwork	0.381049545	1.018646685
MP:0000812	abnormal dentate gyrus morphology	0.99980487	1.018712111
REACTOME_NEF_MEDIATED_DOWNREGULATION_OF_M	REACTOME_NEF_MEDIATED_DOWNREGULATION_OF_M	0.381208237	1.018730706
ENSG00000128016	ZFP36 subnetwork	0.381296431	1.018745461
KEGG_RIBOFLAVIN_METABOLISM	KEGG_RIBOFLAVIN_METABOLISM	0.381018019	1.018759084
GO:0031397	negative regulation of protein ubiquitination	0.99980064	1.018766302
GO:0043240	Fanconi anaemia nuclear complex	0.99979721	1.018831077
ENSG00000163956	LRPAP1 subnetwork	0.38140975	1.018887275
GO:0034703	cation channel complex	0.99979548	1.018899387
GO:0006275	regulation of DNA replication	0.381002417	1.01892604
MP:0001071	abnormal facial nerve morphology	0.999794978	1.018971231
ENSG00000174720	LARP7 subnetwork	0.381604065	1.018989294
ENSG00000136231	IGF2BP3 subnetwork	0.999793311	1.019043086
ENSG00000188488	SERPINA5 subnetwork	0.380773831	1.019085288
GO:0007015	actin filament organization	0.381001469	1.019111232
MP:0004077	abnormal striatum morphology	0.999791406	1.019114951
REACTOME_CELL_DEATH_SIGNAL	REACTOME_CELL_DEATH_SIGNALLING_VIA_NRAGE_NRI	0.381594089	1.019165154
GO:0045453	bone resorption	0.380887893	1.019172727
GO:0022836	gated channel activity	0.999786872	1.019176247
ENSG00000215760	ENSG00000215760 subnetwork	0.381901419	1.01924193
ENSG00000167306	MYO5B subnetwork	0.38099272	1.019241956
GO:0015081	sodium ion transmembrane transporter activity	0.99978583	1.019244604
MP:0000031	abnormal cochlea morphology	0.999785029	1.019316499
GO:0015079	potassium ion transmembrane transporter activity	0.99978421	1.019384876
ENSG00000187325	TAF9B subnetwork	0.381901419	1.019426809
GO:0035567	non-canonical Wnt receptor signaling pathway	0.999783265	1.01945679
GO:0072009	nephron epithelium development	0.999782508	1.019528715
REACTOME_CLASS_A1_RHODOPS	REACTOME_CLASS_A1_RHODOPSIN:LIKE_RECEPTORS	0.381861429	1.019539187
GO:0090189	regulation of branching involved in ureteric bud morpho	0.99977914	1.019600649
ENSG00000170606	HSPA4 subnetwork	0.382298082	1.01963218
GO:0008239	dipeptidyl-peptidase activity	0.382150811	1.019651922
GO:0048265	response to pain	0.999778645	1.019672594
REACTOME_SMOOTH_MUSCLE_C	REACTOME_SMOOTH_MUSCLE_CONTRACTION	0.38210623	1.019718948
GO:0009084	glutamine family amino acid biosynthetic process	0.999773282	1.019730435
GO:0045351	type I interferon biosynthetic process	0.382279713	1.019771656
GO:0006164	purine nucleotide biosynthetic process	0.999769534	1.019802399
ENSG00000067704	IARS2 subnetwork	0.382238114	1.019811492
GO:0030424	axon	0.999766962	1.019867316
GO:0021879	forebrain neuron differentiation	0.999760327	1.019925184
GO:0045165	cell fate commitment	0.999756444	1.01997953
GO:0007597	blood coagulation, intrinsic pathway	0.99975567	1.020048002
GO:0045931	positive regulation of mitotic cell cycle	0.382597743	1.020086941
ENSG00000134245	WNT2B subnetwork	0.999753987	1.020120014
GO:0044462	external encapsulating structure part	0.999748131	1.020167326
GO:0005811	lipid particle	0.382573885	1.020217391
GO:0030313	cell envelope	0.999748131	1.020239356
ENSG00000186834	HEXIM1 subnetwork	0.382882873	1.020275163
ENSG00000047621	C12orf4 subnetwork	0.999747746	1.020311397
ENSG00000107789	MINPP1 subnetwork	0.999744384	1.020372855
MP:0001417	decreased exploration in new environment	0.999743811	1.020444915
ENSG00000128487	SPECC1 subnetwork	0.382872774	1.020450842
ENSG00000107201	DDX58 subnetwork	0.382980557	1.020461538
GO:0061326	renal tubule development	0.999741741	1.020513454
GO:0015267	channel activity	0.999740838	1.020585535

GO:0005681	spliceosomal complex	0.38286988	1.020626585
GO:0022803	passive transmembrane transporter activity	0.999740838	1.020657625
MP:0002906	increased susceptibility to pharmacologically induced sei	0.999740769	1.020729726
GO:0030594	neurotransmitter receptor activity	0.999740519	1.020801837
GO:0010977	negative regulation of neuron projection development	0.999740284	1.020873958
GO:0051932	synaptic transmission, GABAergic	0.999738429	1.020939024
MP:0002067	abnormal sensory capabilities/reflexes/nociception	0.999728788	1.020989966
ENSG00000135940	COX5B subnetwork	0.383335832	1.021042157
GO:0008038	neuron recognition	0.999727965	1.021062116
GO:0060986	endocrine hormone secretion	0.383277882	1.021100253
ENSG00000136854	STXBP1 subnetwork	0.999727958	1.021134276
ENSG00000188064	WNT7B subnetwork	0.999727684	1.021202912
ENSG00000175224	ATG13 subnetwork	0.383520727	1.02121541
GO:0050433	regulation of catecholamine secretion	0.999726739	1.021271558
GO:0001673	male germ cell nucleus	0.383495333	1.021318741
GO:0051954	positive regulation of amine transport	0.999725086	1.021340213
GO:0048167	regulation of synaptic plasticity	0.999724635	1.021408879
GO:0019933	cAMP-mediated signaling	0.999723211	1.021481089
ENSG00000185236	RAB11B subnetwork	0.383689372	1.021491863
MP:0006309	decreased retinal ganglion cell number	0.999718398	1.021542704
ENSG00000169242	EFNA1 subnetwork	0.999718234	1.021614933
GO:0030261	chromosome condensation	0.999717905	1.021687173
ENSG00000003096	KLHL13 subnetwork	0.383839683	1.021723016
MP:0004739	conductive hearing loss	0.999714874	1.021755887
GO:0046686	response to cadmium ion	0.999713864	1.021824611
GO:0008344	adult locomotory behavior	0.999710373	1.021889808
MP:0000087	absent mandible	0.999709205	1.021962088
GO:0021514	ventral spinal cord interneuron differentiation	0.999708808	1.022034378
ENSG00000180817	PPA1 subnetwork	0.384802238	1.022049802
GO:0071549	cellular response to dexamethasone stimulus	0.999707681	1.022103141
GO:0090022	regulation of neutrophil chemotaxis	0.384774041	1.022107923
MP:0005587	abnormal Meckel's cartilage morphology	0.999706357	1.022175451
ENSG00000065548	ZC3H15 subnetwork	0.384183799	1.02219812
GO:0042659	regulation of cell fate specification	0.999704826	1.022247771
ENSG00000211660	ENSG00000211660 subnetwork	0.384336744	1.022271413
GO:0071248	cellular response to metal ion	0.384771171	1.022292419
ENSG00000099817	POLR2E subnetwork	0.384627079	1.022318527
ENSG00000093100	ENSG00000093100 subnetwork	0.999704306	1.022320102
ENSG00000106258	CYP3A5 subnetwork	0.384491341	1.02232659
MP:0010053	decreased grip strength	0.999701912	1.022385367
ENSG00000104517	UBR5 subnetwork	0.384576923	1.022403829
ENSG00000204983	PRSS1 subnetwork	0.384758851	1.022440874
GO:0050982	detection of mechanical stimulus	0.999698663	1.022443564
ENSG00000211653	ENSG00000211653 subnetwork	0.384336744	1.022456172
ENSG00000115596	WNT6 subnetwork	0.99969479	1.022501769
ENSG00000021461	CYP3A43 subnetwork	0.384491341	1.022511292
GO:0000768	syncytium formation by plasma membrane fusion	0.385059842	1.022523904
GO:0003001	generation of a signal involved in cell-cell signaling	0.999693657	1.022574138
GO:0023061	signal release	0.999693657	1.022646518
MP:0009750	impaired behavioral response to addictive substance	0.999687944	1.022708289
GO:0072080	nephron tubule development	0.999686718	1.022780688
GO:0006206	pyrimidine base metabolic process	0.999684145	1.022849558
ENSG00000108379	WNT3 subnetwork	0.999683913	1.022921977
GO:0008589	regulation of smoothened signaling pathway	0.99968275	1.022994406

GO:0006820	anion transport	0.999677132	1.023045603
MP:0006000	abnormal corneal epithelium morphology	0.999676824	1.023118051
GO:0051963	regulation of synapse assembly	0.999676462	1.02319051
GO:0021675	nerve development	0.999674398	1.023255896
GO:0030104	water homeostasis	0.385594309	1.023323116
MP:0000034	abnormal vestibule morphology	0.999670965	1.023324834
ENSG00000099800	TIMM13 subnetwork	0.385514924	1.023327322
MP:0001890	anencephaly	0.999668147	1.023390239
GO:0035116	embryonic hindlimb morphogenesis	0.999663207	1.023445027
MP:0008642	decreased circulating interleukin-1 beta level	0.385486065	1.023466811
ENSG00000121058	COIL subnetwork	0.385709402	1.023472147
GO:0015844	monoamine transport	0.9996627	1.023517535
ENSG00000138722	MMRN1 subnetwork	0.385851931	1.023553793
ENSG00000120254	MTHFD1L subnetwork	0.99965626	1.02358651
ENSG00000176476	ENSG00000176476	0.385824011	1.023639149
MP:0002885	abnormal AMPA-mediated synaptic currents	0.999652636	1.023651952
ENSG00000184117	NIPSNAP1 subnetwork	0.999647437	1.023720947
GO:0051928	positive regulation of calcium ion transport	0.387277829	1.023738553
MP:0001510	abnormal coat appearance	0.387764663	1.023740362
GO:0005635	nuclear envelope	0.386960073	1.023741912
GO:0008831	dTDP-4-dehydrorhamnose reductase activity	0.387537926	1.02374843
GO:0021513	spinal cord dorsal/ventral patterning	0.999643243	1.023782864
REACTOME_ZINC_TRANSPORTER:	REACTOME_ZINC_TRANSPORTERS	0.387047858	1.023809524
REACTOME_CELL:CELL_JUNCTION	REACTOME_CELL:CELL_JUNCTION_ORGANIZATION	0.999641132	1.023848335
GO:0031365	N-terminal protein amino acid modification	0.387118464	1.023850162
ENSG00000185658	BRWD1 subnetwork	0.386251042	1.023878984
GO:0046906	tetrapyrrole binding	0.387267714	1.023886494
GO:0008154	actin polymerization or depolymerization	0.389495007	1.023888591
ENSG00000182636	NDN subnetwork	0.387209384	1.023890785
GO:0005537	mannose binding	0.388822437	1.023891273
MP:0002465	abnormal eosinophil physiology	0.388916224	1.023904881
GO:0060401	cytosolic calcium ion transport	0.38753468	1.023914214
ENSG00000178184	PARD6G subnetwork	0.387746565	1.023914993
MP:0002689	abnormal molar morphology	0.999635562	1.023917358
ENSG00000070371	CLTCL1 subnetwork	0.388772373	1.023922375
ENSG00000122861	PLAU subnetwork	0.386958484	1.023925939
ENSG00000137693	YAP1 subnetwork	0.389442196	1.0239375
ENSG00000169371	SNUPN subnetwork	0.389197129	1.023941397
MP:0010867	abnormal bone trabecula morphology	0.387405606	1.023958707
GO:0001917	photoreceptor inner segment	0.386089718	1.023963964
MP:0005087	decreased acute inflammation	0.387925887	1.023964868
ENSG00000109846	CRYAB subnetwork	0.387658372	1.023977395
ENSG00000197459	HIST1H2BH subnetwork	0.386155436	1.023977662
GO:0015172	acidic amino acid transmembrane transporter activity	0.999634943	1.023989935
ENSG00000189079	ARID2 subnetwork	0.388112373	1.023992116
MP:0004131	abnormal embryonic cilium morphology	0.387721383	1.024
GO:0030135	coated vesicle	0.386239636	1.024018372
MP:0005323	dystonia	0.387502584	1.024026207
GO:0050662	coenzyme binding	0.999633593	1.024062522
GO:0019433	triglyceride catabolic process	0.386940126	1.024074074
GO:0019915	lipid storage	0.388756027	1.024078712
MP:0002953	thick ventricular wall	0.389191232	1.024106505
ENSG00000164985	PSIP1 subnetwork	0.389116024	1.024110813
GO:0019888	protein phosphatase regulator activity	0.388584489	1.024118489

GO:0044060	regulation of endocrine process	0.389440189	1.024120379
ENSG00000198400	NTRK1 subnetwork	0.389343304	1.024124687
GO:0014046	dopamine secretion	0.999631466	1.024131575
GO:0034061	DNA polymerase activity	0.387918772	1.024139477
GO:0015030	Cajal body	0.388475647	1.024145031
ENSG00000095485	CWF19L1 subnetwork	0.38905858	1.024150876
MP:0001917	intraventricular hemorrhage	0.388100584	1.024157706
ENSG00000138162	TACC2 subnetwork	0.388729216	1.024172482
GO:0014059	regulation of dopamine secretion	0.999631466	1.024204183
MP:0005562	decreased mean corpuscular hemoglobin	0.388433053	1.024229943
ENSG00000148377	IDI2 subnetwork	0.388557587	1.024230218
REACTOME_INFLUENZA_LIFE_CYCLE	REACTOME_INFLUENZA_LIFE_CYCLE	0.388359356	1.024243238
GO:0046058	cAMP metabolic process	0.999618452	1.02424844
MP:0000433	microcephaly	0.38693641	1.024258227
GO:0070059	intrinsic apoptotic signaling pathway in response to endo	0.388283556	1.024265496
GO:0022408	negative regulation of cell-cell adhesion	0.388699177	1.024293128
GO:0016339	calcium-dependent cell-cell adhesion	0.999618247	1.024321066
ENSG00000214122	ENSG00000214122 subnetwork	0.389754038	1.024357372
GO:0002076	osteoblast development	0.999618117	1.024393703
GO:0048247	lymphocyte chemotaxis	0.389842447	1.024406568
GO:0019001	guanyl nucleotide binding	0.386933079	1.024442446
GO:0001708	cell fate specification	0.999617939	1.02446635
GO:0007179	transforming growth factor beta receptor signaling pathw	0.389917978	1.02447359
GO:0005249	voltage-gated potassium channel activity	0.999613575	1.024531915
GO:0008536	Ran GTPase binding	0.390054902	1.024603033
GO:0051340	regulation of ligase activity	0.999608244	1.024604582
GO:0032561	guanyl ribonucleotide binding	0.386933079	1.024626731
GO:0042475	odontogenesis of dentin-containing tooth	0.999604759	1.024673713
REACTOME_PTM_GAMMA_CARBOXYLATION_HYPUSINE	REACTOME_PTM_GAMMA_CARBOXYLATION_HYPUSINE	0.386678031	1.024725473
GO:0044272	sulfur compound biosynthetic process	0.999604596	1.0247464
GO:0009411	response to UV	0.386899782	1.024766103
GO:0008047	enzyme activator activity	0.386647098	1.024774937
GO:0009165	nucleotide biosynthetic process	0.999603531	1.024819098
GO:0030426	growth cone	0.999600087	1.024888258
GO:0032231	regulation of actin filament bundle assembly	0.386875809	1.024914522
GO:0007340	acrosome reaction	0.999595811	1.024950333
GO:0070301	cellular response to hydrogen peroxide	0.386806984	1.024964003
GO:0070325	lipoprotein particle receptor binding	0.999586479	1.025019513
GO:0071705	nitrogen compound transport	0.999585434	1.025088703
ENSG00000092964	DPYSL2 subnetwork	0.999584353	1.025157902
GO:0042069	regulation of catecholamine metabolic process	0.99958367	1.025227111
GO:0019934	cGMP-mediated signaling	0.999570592	1.025275037
ENSG00000206480	FLOT1 subnetwork	0.391304349	1.025333689
ENSG00000166925	TSC22D4 subnetwork	0.999566915	1.025337166
GO:0071695	anatomical structure maturation	0.999565902	1.025409952
MP:0004452	abnormal pterygoid process morphology	0.999563698	1.025479199
MP:0000471	abnormal stomach epithelium morphology	0.391616904	1.025498043
REACTOME_ISG15_ANTIVIRAL_MECHANISM	REACTOME_ISG15_ANTIVIRAL_MECHANISM	0.39105225	1.025498753
ENSG00000137312	FLOT1 subnetwork	0.391304349	1.025516198
MP:0004860	dilated kidney collecting duct	0.390614382	1.025548422
GO:0006171	cAMP biosynthetic process	0.999562682	1.025548456
ENSG00000161920	MED11 subnetwork	0.39174065	1.025555753
ENSG00000123106	CCDC91 subnetwork	0.391989616	1.025613224
GO:0042734	presynaptic membrane	0.999561991	1.025617722

REACTOME_NETRIN:1_SIGNALING	REACTOME_NETRIN:1_SIGNALING	0.391612316	1.025662693
REACTOME_ANTIVIRAL_MECHANISM_BY_IFN:STIMULATION	REACTOME_ANTIVIRAL_MECHANISM_BY_IFN:STIMULATION	0.39105225	1.025681454
GO:0051282	regulation of sequestering of calcium ion	0.390905149	1.025681697
ENSG00000164171	ITGA2 subnetwork	0.391834474	1.025684566
MP:0003702	abnormal chromosome morphology	0.391228586	1.025685541
GO:0030799	regulation of cyclic nucleotide metabolic process	0.999560339	1.025690549
ENSG00000206379	FLOT1 subnetwork	0.391304349	1.025698772
ENSG00000134308	YWHAQ subnetwork	0.390611037	1.025731359
MP:0006337	abnormal first branchial arch morphology	0.999558565	1.025745633
ENSG00000100811	YY1 subnetwork	0.391980442	1.025751111
ENSG00000058866	DGKG subnetwork	0.391208356	1.025788068
MP:0001243	abnormal dermal layer morphology	0.391588821	1.025800712
GO:0009190	cyclic nucleotide biosynthetic process	0.99955596	1.025814928
MP:0002690	akinesia	0.391031049	1.025819672
GO:0051283	negative regulation of sequestering of calcium ion	0.390905149	1.025864528
GO:0090177	establishment of planar polarity involved in neural tube development	0.999554805	1.025880682
GO:0021799	cerebral cortex radially oriented cell migration	0.999550566	1.025946445
GO:0016701	oxidoreductase activity, acting on single donors with incorporation of NADPH or NADH	0.392198246	1.02600853
GO:0048588	developmental cell growth	0.999548734	1.026019321
ENSG00000100664	EIF5 subnetwork	0.390831815	1.026025321
GO:0051209	release of sequestered calcium ion into cytosol	0.390905149	1.026047424
GO:0021543	pallium development	0.999548662	1.026092207
ENSG00000106105	GARS subnetwork	0.392537482	1.026141005
GO:0008556	potassium-transporting ATPase activity	0.99954837	1.026165104
GO:0007389	pattern specification process	0.999535926	1.026220249
ENSG00000119401	TRIM32 subnetwork	0.39243917	1.026239119
ENSG00000106459	NRF1 subnetwork	0.39252067	1.026278863
GO:0050773	regulation of dendrite development	0.9995316	1.026289612
GO:0022411	cellular component disassembly	0.392409679	1.026332623
MP:0003402	decreased liver weight	0.393079858	1.026339127
GO:0005720	nuclear heterochromatin	0.393023691	1.02636154
MP:0009754	enhanced behavioral response to cocaine	0.999531593	1.026362538
GO:0001937	negative regulation of endothelial cell proliferation	0.999527859	1.026431922
GO:0045202	synapse	0.999527652	1.026504868
MP:0002941	increased circulating alanine transaminase level	0.393017605	1.026525905
ENSG00000214114	MYCBP subnetwork	0.392798173	1.026531156
ENSG00000172893	DHCR7 subnetwork	0.392733106	1.026535866
REACTOME_TRANSMEMBRANE_TRANSPORT_OF_SMALL_MOLECULES	REACTOME_TRANSMEMBRANE_TRANSPORT_OF_SMALL_MOLECULES	0.999526109	1.026567164
ENSG00000136891	TEX10 subnetwork	0.392958145	1.026601597
MP:0001399	hyperactivity	0.999521468	1.026636577
GO:0050829	defense response to Gram-negative bacterium	0.392942589	1.026695066
GO:0046415	urate metabolic process	0.999520997	1.026705999
GO:0045176	apical protein localization	0.99952059	1.026778986
MP:0008284	abnormal hippocampus pyramidal cell layer morphology	0.999520453	1.026851984
MP:0002243	abnormal vomeronasal organ morphology	0.99951691	1.026917881
GO:0071804	cellular potassium ion transport	0.999516068	1.026990899
GO:0071805	potassium ion transmembrane transport	0.999516068	1.027063927
ENSG00000166206	GABRB3 subnetwork	0.999513679	1.027133409
ENSG00000115806	GORASP2 subnetwork	0.393560156	1.02714539
MP:0009355	increased liver triglyceride level	0.393521406	1.027176804
MP:0003460	decreased fear-related response	0.999513649	1.027206458
GO:0018345	protein palmitoylation	0.99950653	1.027258179
MP:0005407	hyperalgesia	0.99950217	1.027324134
ENSG00000171603	CLSTN1 subnetwork	0.999497119	1.027390098

GO:0051352	negative regulation of ligase activity	0.999494381	1.027463186
GO:0051444	negative regulation of ubiquitin-protein ligase activity	0.999494381	1.027536283
ENSG00000137699	TRIM29 subnetwork	0.999487772	1.027602277
GO:0033293	monocarboxylic acid binding	0.999485706	1.027675395
GO:0090190	positive regulation of branching involved in ureteric bud	0.999484919	1.027748523
GO:0022029	telencephalon cell migration	0.999468153	1.027800313
ENSG00000149295	DRD2 subnetwork	0.999466502	1.027873461
GO:0008328	ionotropic glutamate receptor complex	0.999465545	1.027946619
GO:0030808	regulation of nucleotide biosynthetic process	0.999461549	1.028009111
GO:0030802	regulation of cyclic nucleotide biosynthetic process	0.999461549	1.028082289
ENSG00000122566	HNRNPA2B1 subnetwork	0.393995008	1.028124446
GO:0030513	positive regulation of BMP signaling pathway	0.999456306	1.028148359
ENSG00000204967	PCDHA4 subnetwork	0.999455051	1.028214438
GO:0060078	regulation of postsynaptic membrane potential	0.999448814	1.028276967
MP:0000746	weakness	0.999446601	1.028350185
MP:0000061	fragile skeleton	0.99943643	1.028416293
REACTOME_GABA_SYNTHESIS_RELEASE_REUPTAKE_ANI	REACTOME_GABA_SYNTHESIS_RELEASE_REUPTAKE_ANI	0.999432719	1.028478849
GO:0015293	symporter activity	0.999432179	1.028552097
GO:0060998	regulation of dendritic spine development	0.999431435	1.028625356
GO:0002407	dendritic cell chemotaxis	0.394201312	1.02866005
GO:0050769	positive regulation of neurogenesis	0.999427723	1.028691502
GO:0007187	G-protein coupled receptor signaling pathway, coupled t	0.999424087	1.028746973
ENSG00000166407	LMO1 subnetwork	0.999423526	1.028820261
MP:0003131	increased erythrocyte cell number	0.394468443	1.028830824
MP:0001511	disheveled coat	0.394353371	1.028841042
MP:0000036	absent semicircular canals	0.999421507	1.028889997
ENSG00000179950	PUF60 subnetwork	0.394774214	1.028916622
GO:0006790	sulfur compound metabolic process	0.999418154	1.028963306
GO:0030850	prostate gland development	0.39457809	1.028993978
MP:0004247	small pancreas	0.394464603	1.029013111
GO:0030178	negative regulation of Wnt receptor signaling pathway	0.999409223	1.029018811
ENSG00000167005	NUDT21 subnetwork	0.394756155	1.029072238
GO:0032228	regulation of synaptic transmission, GABAergic	0.999404125	1.029088577
ENSG00000172500	FIBP subnetwork	0.394927181	1.029106195
GO:0035115	embryonic forelimb morphogenesis	0.999396068	1.029151226
GO:0046520	sphingoid biosynthetic process	0.99939048	1.029213884
GO:0016702	oxidoreductase activity, acting on single donors with inc	0.394749418	1.029245617
GO:0007405	neuroblast proliferation	0.999387809	1.029280114
REACTOME_AMINO_ACID_AND_OLIGOPEPTIDE_SLC_TR	REACTOME_AMINO_ACID_AND_OLIGOPEPTIDE_SLC_TR	0.999385091	1.029353482
ENSG00000173786	CNP subnetwork	0.999383339	1.029426861
GO:0043101	purine-containing compound salvage	0.999382601	1.02950025
GO:0042063	gliogenesis	0.999376515	1.029562955
ENSG00000081479	LRP2 subnetwork	0.999368788	1.029611408
GO:0031145	anaphase-promoting complex-dependent proteasomal u	0.999367076	1.029681261
GO:0015291	secondary active transmembrane transporter activity	0.999364935	1.029751123
GO:0048665	neuron fate specification	0.999359234	1.029799601
MP:0005445	abnormal neurotransmitter secretion	0.999355482	1.029873048
GO:0051436	negative regulation of ubiquitin-protein ligase activity in	0.99934574	1.029942939
GO:0071436	sodium ion export	0.999344997	1.030016406
GO:0030002	cellular anion homeostasis	0.999342914	1.030079184
GO:0006525	arginine metabolic process	0.999334346	1.030120568
MP:0000029	abnormal malleus morphology	0.999331073	1.030190497
GO:0002087	regulation of respiratory gaseous exchange by neurologi	0.999327062	1.030260435
GO:0044065	regulation of respiratory system process	0.999327062	1.030333952

GO:0005272	sodium channel activity	0.999325488	1.030407479
ENSG00000047932	GOPC subnetwork	0.395602857	1.030470547
ENSG00000111186	WNT5B subnetwork	0.999323409	1.03047388
GO:0000785	chromatin	0.395666324	1.030491687
GO:0001786	phosphatidylserine binding	0.395556552	1.030502477
MP:0004393	abnormal cochlear inner hair cell morphology	0.395775522	1.030539346
GO:0016799	hydrolase activity, hydrolyzing N-glycosyl compounds	0.395506413	1.030543267
GO:0051890	regulation of cardioblast differentiation	0.999322766	1.030543858
MP:0004068	dilated dorsal aorta	0.999321023	1.030613847
GO:0031128	developmental induction	0.999318694	1.030673139
REACTOME_INFLUENZA_INFECTION	REACTOME_INFLUENZA_INFECTION	0.395913921	1.03071959
GO:0006821	chloride transport	0.99931647	1.030743147
GO:0043174	nucleoside salvage	0.999310641	1.030816734
MP:0006020	decreased tympanic ring size	0.999310277	1.030890333
GO:0030427	site of polarized growth	0.999309955	1.030963941
GO:0051439	regulation of ubiquitin-protein ligase activity involved in	0.99929055	1.031019709
GO:0033238	regulation of cellular amine metabolic process	0.999289291	1.031089766
GO:0070570	regulation of neuron projection regeneration	0.999275569	1.031127696
GO:0048679	regulation of axon regeneration	0.999275569	1.031201343
GO:0001841	neural tube formation	0.99927209	1.031264286
ENSG00000198010	DLGAP2 subnetwork	0.396192882	1.031297508
GO:0060602	branch elongation of an epithelium	0.999250543	1.031312951
GO:0021527	spinal cord association neuron differentiation	0.999249865	1.031383055
GO:0005267	potassium channel activity	0.999249359	1.031456741
MP:0001602	impaired myelopoiesis	0.396341157	1.031468717
GO:0048704	embryonic skeletal system morphogenesis	0.99924408	1.03151972
MP:0006033	abnormal external auditory canal morphology	0.999239403	1.031593426
ENSG00000168539	CHRM1 subnetwork	0.999221991	1.031627841
ENSG00000137500	CCDC90B subnetwork	0.999221749	1.031701565
ENSG00000162302	RPS6KA4 subnetwork	0.397039412	1.031768443
GO:0043043	peptide biosynthetic process	0.999221042	1.0317753
GO:0008289	lipid binding	0.396894239	1.031797316
GO:0071621	granulocyte chemotaxis	0.39669306	1.031831832
ENSG00000163531	NFASC subnetwork	0.999220567	1.031849046
ENSG00000111859	NEDD9 subnetwork	0.396764489	1.031861533
ENSG00000197711	ENSG00000197711 subnetwork	0.397016598	1.031897617
GO:0003197	endocardial cushion development	0.999213481	1.03191208
GO:0010466	negative regulation of peptidase activity	0.396887057	1.031944199
REACTOME_ACTIVATION_OF_GENES_BY_ATF4	REACTOME_ACTIVATION_OF_GENES_BY_ATF4	0.396604429	1.031949108
GO:0022834	ligand-gated channel activity	0.999211768	1.031982272
GO:0071622	regulation of granulocyte chemotaxis	0.39669306	1.032014134
GO:0015276	ligand-gated ion channel activity	0.999211768	1.032056048
ENSG00000168172	HOOK3 subnetwork	0.999209405	1.032129835
ENSG00000133083	DCLK1 subnetwork	0.999207569	1.032200057
GO:0051129	negative regulation of cellular component organization	0.999204596	1.032273865
ENSG00000187672	ERC2 subnetwork	0.999203181	1.032344108
MP:0000762	abnormal tongue morphology	0.999203012	1.032417936
GO:0005680	anaphase-promoting complex	0.999202593	1.032491775
GO:0005178	integrin binding	0.397404197	1.032539262
GO:0044456	synapse part	0.999201943	1.032565625
GO:0043113	receptor clustering	0.999199708	1.032639485
ENSG00000196367	TRRAP subnetwork	0.397541836	1.032657022
MP:0003123	paternal imprinting	0.999196995	1.032709779
GO:0035725	sodium ion transmembrane transport	0.999190219	1.032772929

MP:0008948	decreased neuron number	0.999181798	1.032843242
GO:0001736	establishment of planar polarity	0.999181462	1.032917144
GO:0032094	response to food	0.999155432	1.032958855
MP:0001447	abnormal nest building behavior	0.999149763	1.033022041
MP:0008023	abnormal styloid process morphology	0.999133168	1.033049453
GO:0051321	meiotic cell cycle	0.39775389	1.033056977
GO:0021988	olfactory lobe development	0.99913289	1.033116232
GO:0042445	hormone metabolic process	0.397893703	1.033124669
ENSG00000183431	SF3A3 subnetwork	0.397830106	1.03313933
GO:0021772	olfactory bulb development	0.99913289	1.03319018
GO:0070403	NAD+ binding	0.999129371	1.033260558
ENSG00000070501	POLB subnetwork	0.99912456	1.033327368
GO:0008066	glutamate receptor activity	0.999112254	1.033369129
ENSG00000159023	EPB41 subnetwork	0.398027384	1.033400917
REACTOME_CLASS_C3_METABOT	REACTOME_CLASS_C3_METABOTROPIC_GLUTAMATEPH	0.999102511	1.033428796
GO:0051351	positive regulation of ligase activity	0.99910144	1.033502792
GO:0018130	heterocycle biosynthetic process	0.999100557	1.033576799
GO:0030814	regulation of cAMP metabolic process	0.999092725	1.033632913
ENSG00000180879	SSR4 subnetwork	0.39815396	1.033641812
GO:0051437	positive regulation of ubiquitin-protein ligase activity inv	0.999088434	1.033699778
GO:0048821	erythrocyte development	0.398483577	1.033759028
GO:0030817	regulation of cAMP biosynthetic process	0.999086999	1.033773815
GO:0046852	positive regulation of bone remodeling	0.399265394	1.033831546
ENSG00000114251	WNT5A subnetwork	0.999084168	1.033847862
GO:0005003	ephrin receptor activity	0.999074848	1.033911175
ENSG00000198176	TFDP1 subnetwork	0.398483378	1.033941156
GO:0017156	calcium ion-dependent exocytosis	0.999063599	1.033967333
ENSG00000108883	EFTUD2 subnetwork	0.399617235	1.033992268
ENSG00000198788	MUC2 subnetwork	0.398451031	1.034008811
GO:0045780	positive regulation of bone resorption	0.399265394	1.034013366
MP:0002021	increased incidence of induced tumors	0.398381008	1.034023616
GO:0031644	regulation of neurological system process	0.999054894	1.034027081
GO:0051495	positive regulation of cytoskeleton organization	0.399205419	1.034045734
ENSG00000124194	GDAP1L1 subnetwork	0.399521559	1.034083319
ENSG00000144285	SCN1A subnetwork	0.398723438	1.034096513
ENSG00000132334	PTPRE subnetwork	0.999053778	1.034097585
GO:0005246	calcium channel regulator activity	0.99903834	1.034143021
GO:0007126	meiosis	0.39910908	1.034163294
GO:0007184	SMAD protein import into nucleus	0.399615992	1.034173989
ENSG00000079739	PGM1 subnetwork	0.3991858	1.034183673
ENSG00000038002	AGA subnetwork	0.399490425	1.034186006
ENSG00000070366	SMG6 subnetwork	0.398819497	1.034187357
MP:0005167	abnormal blood-brain barrier function	0.399763117	1.034188335
GO:0007631	feeding behavior	0.999028698	1.034213544
MP:0005306	abnormal phalanx morphology	0.999019693	1.03426616
MP:0002912	abnormal excitatory postsynaptic potential	0.999016711	1.034322368
GO:0051327	M phase of meiotic cell cycle	0.39910908	1.034345301
ENSG00000160062	ZBTB8A subnetwork	0.999012262	1.034392919
GO:0009063	cellular amino acid catabolic process	0.999011757	1.034467063
GO:0042359	vitamin D metabolic process	0.399092059	1.034500968
ENSG00000168906	MAT2A subnetwork	0.399943679	1.03450729
GO:0044349	DNA excision	0.999005733	1.034541219
ENSG00000139668	WDFY2 subnetwork	0.399022588	1.034559859
GO:0000718	nucleotide-excision repair, DNA damage removal	0.999005733	1.034615385

GO:0007188	adenylate cyclase-modulating G-protein coupled receptor	0.99900256	1.034682392
GO:0070979	protein K11-linked ubiquitination	0.999002032	1.034756578
REACTOME_INTERACTION_BETW	REACTOME_INTERACTION_BETWEEN_L1_AND_ANKYRIN	0.999001693	1.034830776
GO:0021885	forebrain cell migration	0.998997416	1.034897813
GO:0045216	cell-cell junction organization	0.998992446	1.034961274
ENSG00000139083	ETV6 subnetwork	0.998985725	1.035021158
GO:0090175	regulation of establishment of planar polarity	0.99898435	1.035095395
GO:0060071	Wnt receptor signaling pathway, planar cell polarity path	0.99898435	1.035169643
GO:0003231	cardiac ventricle development	0.998981531	1.035240316
MP:0002765	short fibula	0.998980975	1.035314585
GO:0044282	small molecule catabolic process	0.998975311	1.035385278
MP:0001473	reduced long term potentiation	0.99896794	1.03544163
MP:0002797	increased thigmotaxis	0.998964862	1.035508754
GO:0048706	embryonic skeletal system development	0.998957558	1.035579476
ENSG00000090273	NUDC subnetwork	0.998954972	1.035650208
ENSG00000114315	HES1 subnetwork	0.400472238	1.035677907
MP:0006065	abnormal heart position or orientation	0.998944949	1.035703007
ENSG00000139505	MTMR6 subnetwork	0.400560908	1.035776997
GO:0048013	ephrin receptor signaling pathway	0.998943083	1.035777347
ENSG00000086205	FOLH1 subnetwork	0.401138674	1.035814484
REACTOME_TANDEM_PORE_DOM	REACTOME_TANDEM_PORE_DOMAIN_POTASSIUM_CH	0.998942503	1.035851698
REACTOME_MITOTIC_SPINDLE_C	REACTOME_MITOTIC_SPINDLE_CHECKPOINT	0.998925149	1.035882986
ENSG00000104695	PPP2CB subnetwork	0.400981752	1.035894737
ENSG00000007174	DNAH9 subnetwork	0.401039939	1.035923522
GO:0035036	sperm-egg recognition	0.401102602	1.035925991
ENSG00000169213	RAB3B subnetwork	0.998921075	1.035935817
GO:0007274	neuromuscular synaptic transmission	0.998911132	1.035999426
MP:0000186	decreased circulating HDL cholesterol level	0.400974583	1.036058958
MP:0004097	abnormal cerebellar cortex morphology	0.998910114	1.036073813
ENSG00000147383	NSDHL subnetwork	0.400924257	1.036082836
REACTOME_PI3K_CASCADE	REACTOME_PI3K_CASCADE	0.400850902	1.03608917
ENSG00000205155	PSENEN subnetwork	0.99890352	1.036141031
ENSG00000123562	MORF4L2 subnetwork	0.401427816	1.036170026
MP:0005618	decreased urine potassium level	0.400812907	1.036209621
GO:0006865	amino acid transport	0.998902236	1.03621544
ENSG00000135047	CTSL1 subnetwork	0.401379123	1.036228962
GO:0001658	branching involved in ureteric bud morphogenesis	0.998892287	1.036282677
GO:0048712	negative regulation of astrocyte differentiation	0.998889885	1.036357107
MP:0009757	impaired behavioral response to morphine	0.998887448	1.036424364
GO:0017134	fibroblast growth factor binding	0.40177637	1.036468734
MP:0003076	increased susceptibility to ischemic brain injury	0.998874828	1.036470081
GO:0006891	intra-Golgi vesicle-mediated transport	0.401606139	1.036470382
GO:0032266	phosphatidylinositol-3-phosphate binding	0.998872448	1.03654454
MP:0004086	absent heartbeat	0.401731537	1.0365452
GO:0060606	tube closure	0.998867347	1.036608233
ENSG00000150768	DLAT subnetwork	0.401694316	1.036621693
ENSG00000154608	ENSG00000154608 subnetwork	0.998866677	1.036682713
GO:0072088	nephron epithelium morphogenesis	0.99885749	1.036742833
ENSG00000105737	GRIK5 subnetwork	0.998856691	1.036817333
ENSG00000120251	GRIA2 subnetwork	0.99885281	1.036884657
ENSG00000114554	PLXNA1 subnetwork	0.998846291	1.036948397
MP:0001442	decreased grooming behavior	0.998842358	1.037022928
ENSG00000150753	CCT5 subnetwork	0.402284083	1.037029582
ENSG00000082805	ERC1 subnetwork	0.402150473	1.037068815

GO:0051953	negative regulation of amine transport	0.998837763	1.037093876
ENSG00000159479	MED8 subnetwork	0.402098362	1.037110333
ENSG00000107807	TLX1 subnetwork	0.402238277	1.037114846
MP:0003148	decreased cochlear coiling	0.998836464	1.037168428
ENSG00000170743	SYT9 subnetwork	0.998830688	1.037242991
GO:0032589	neuron projection membrane	0.998828392	1.037313969
MP:0001393	ataxia	0.998823335	1.037374173
GO:0015294	solute:cation symporter activity	0.998820329	1.037441576
GO:0006379	mRNA cleavage	0.998818029	1.037508989
MP:0001330	abnormal optic nerve morphology	0.998793127	1.037554836
ENSG00000025772	TOMM34 subnetwork	0.998780156	1.037607883
REACTOME_DEPOLARIZATION_OF	REACTOME_DEPOLARIZATION_OF_THE_PRESYNAPTIC_T	0.99878014	1.037682515
GO:0046513	ceramide biosynthetic process	0.998756877	1.037706805
GO:0045168	cell-cell signaling involved in cell fate commitment	0.998750361	1.037770664
ENSG00000172164	SNTB1 subnetwork	0.40261544	1.037819391
MP:0002739	abnormal olfactory bulb development	0.998747585	1.037823741
REACTOME_SULFUR_AMINO_ACID	REACTOME_SULFUR_AMINO_ACID_METABOLISM	0.998745247	1.037891215
ENSG00000016490	CLCA1 subnetwork	0.402837318	1.03795697
GO:0010001	glial cell differentiation	0.998741028	1.037962297
ENSG00000106004	HOXA5 subnetwork	0.402795291	1.038024843
GO:0019827	stem cell maintenance	0.998740133	1.038033389
GO:0032154	cleavage furrow	0.403109943	1.038068182
GO:0070265	necrotic cell death	0.402764058	1.03808399
GO:0046496	nicotinamide nucleotide metabolic process	0.998739912	1.038104491
ENSG00000185745	IFIT1 subnetwork	0.402979838	1.038116474
ENSG00000134072	CAMK1 subnetwork	0.998733936	1.038175603
GO:0005261	cation channel activity	0.998713016	1.038225133
ENSG00000101082	SLA2 subnetwork	0.403107116	1.038249694
GO:0001573	ganglioside metabolic process	0.99871295	1.038299863
GO:0042733	embryonic digit morphogenesis	0.998712367	1.038374604
GO:0048103	somatic stem cell division	0.99870604	1.038445756
GO:0006282	regulation of DNA repair	0.998704436	1.038516919
GO:2001020	regulation of response to DNA damage stimulus	0.998702974	1.038584491
GO:0072028	nephron morphogenesis	0.998695206	1.038641273
MP:0000830	abnormal diencephalon morphology	0.998691705	1.038712465
ENSG00000198001	IRAK4 subnetwork	0.403506751	1.038727718
MP:0009888	palatal shelves fail to meet at midline	0.998688149	1.038787268
GO:0009187	cyclic nucleotide metabolic process	0.998661729	1.038815268
GO:0006638	neutral lipid metabolic process	0.403479822	1.038830624
GO:0032098	regulation of appetite	0.998652664	1.038857678
REACTOME_ENDOSOMAL_SORTING	REACTOME_ENDOSOMAL_SORTING_COMPLEX_REQUIRE	0.998650091	1.038921703
MP:0000430	absent maxillary shelf	0.998649178	1.038996542
GO:0060198	clathrin sculpted vesicle	0.998642239	1.039067791
GO:0042474	middle ear morphogenesis	0.99863231	1.03912464
REACTOME_LIGAND-GATED_ION	REACTOME_LIGAND-GATED_ION_CHANNEL_TRANSPORT	0.998628744	1.039177895
GO:0048168	regulation of neuronal synaptic plasticity	0.998628436	1.039252774
MP:0002546	mydriasis	0.998616852	1.039302443
GO:0022604	regulation of cell morphogenesis	0.998609777	1.039373739
MP:0002199	abnormal brain commissure morphology	0.998608681	1.039441441
ENSG00000173210	ABLIM3 subnetwork	0.403834894	1.039463568
GO:0001738	morphogenesis of a polarized epithelium	0.998605816	1.039516362
GO:0060896	neural plate pattern specification	0.403909926	1.03951782
MP:0002207	abnormal long term potentiation	0.998591762	1.039569668
MP:0001961	abnormal reflex	0.998575258	1.039622982

ENSG00000177283	FZD8 subnetwork	0.405909898	1.039650678
MP:0002699	abnormal vitreous body morphology	0.99856497	1.039651071
GO:0007223	Wnt receptor signaling pathway, calcium modulating pat	0.998560869	1.039726027
GO:0046464	acylglycerol catabolic process	0.405875377	1.039727099
GO:0044106	cellular amine metabolic process	0.998560573	1.039800995
MP:0001404	no spontaneous movement	0.998553673	1.039872368
GO:0034599	cellular response to oxidative stress	0.406069252	1.039887055
GO:0044269	glycerol ether catabolic process	0.405875377	1.039907858
ENSG00000100599	RIN3 subnetwork	0.404117231	1.039912664
GO:0005342	organic acid transmembrane transporter activity	0.998551418	1.039943751
ENSG00000115840	SLC25A12 subnetwork	0.998546836	1.040015145
GO:0008146	sulfotransferase activity	0.99854177	1.040086549
GO:0046461	neutral lipid catabolic process	0.405875377	1.04008868
ENSG00000135316	SYNCRIP subnetwork	0.404259036	1.040089067
GO:0034705	potassium channel complex	0.998533261	1.040154357
ENSG00000133958	UNC79 subnetwork	0.405846842	1.040173913
GO:0060765	regulation of androgen receptor signaling pathway	0.406462012	1.040189269
GO:0008076	voltage-gated potassium channel complex	0.998533261	1.040229388
GO:0051926	negative regulation of calcium ion transport	0.405815068	1.040233084
GO:0048608	reproductive structure development	0.406333312	1.040272711
GO:0043523	regulation of neuron apoptotic process	0.405097392	1.040273662
ENSG00000179915	NRXN1 subnetwork	0.998516145	1.040275574
ENSG00000163440	PDCL2 subnetwork	0.405736456	1.040283577
ENSG00000135144	DTX1 subnetwork	0.405696854	1.040307987
REACTOME_BIOLOGICAL_OXIDAT	REACTOME_BIOLOGICAL_OXIDATIONS	0.406261806	1.040314454
MP:0001242	hyperkeratosis	0.405596829	1.040322019
ENSG00000213555	ENSG00000213555 subnetwork	0.406451936	1.040343869
ENSG00000163132	MSX1 subnetwork	0.998515814	1.040350624
GO:0009416	response to light stimulus	0.405268635	1.040364175
GO:2000021	regulation of ion homeostasis	0.405203153	1.040371209
MP:0004279	abnormal rostral migratory stream morphology	0.99850949	1.04041847
GO:0000188	inactivation of MAPK activity	0.405580641	1.040433496
ENSG00000180185	FAHD1 subnetwork	0.405070881	1.040437587
GO:0015093	ferrous iron transmembrane transporter activity	0.40494206	1.040460412
GO:0017171	serine hydrolase activity	0.405691291	1.040471632
GO:0007608	sensory perception of smell	0.99849546	1.040475503
ENSG00000108039	XPNPEP1 subnetwork	0.404892306	1.040484912
ENSG00000185787	MORF4L1 subnetwork	0.405504643	1.040517241
GO:0033628	regulation of cell adhesion mediated by integrin	0.405536311	1.040527599
GO:0001542	ovulation from ovarian follicle	0.405049566	1.040531822
ENSG00000113068	PFDN1 subnetwork	0.998489674	1.040543368
GO:0051654	establishment of mitochondrion localization	0.998477412	1.040593202
GO:0033014	tetrapyrrole biosynthetic process	0.405460984	1.040602682
ENSG00000143858	SYT2 subnetwork	0.998465169	1.04065026
ENSG00000152455	SUV39H2 subnetwork	0.404891192	1.040666434
GO:0035176	social behavior	0.998460957	1.040718152
GO:0006779	porphyrin-containing compound biosynthetic process	0.405460984	1.040783972
GO:0060291	long-term synaptic potentiation	0.998460902	1.040793273
ENSG00000162298	SYVN1 subnetwork	0.404646083	1.040799581
ENSG00000168003	SLC3A2 subnetwork	0.40487282	1.040830571
ENSG00000138442	WDR12 subnetwork	0.404600564	1.040841627
MP:0003861	abnormal nervous system development	0.998452015	1.040853967
GO:0051438	regulation of ubiquitin-protein ligase activity	0.99845162	1.040929108
GO:0050873	brown fat cell differentiation	0.407808818	1.040957908

ENSG00000163399	ATP1A1 subnetwork	0.407421056	1.040967406
ENSG00000105438	KDEL1 subnetwork	0.407493956	1.040968972
GO:0048641	regulation of skeletal muscle tissue development	0.404864516	1.040994764
MP:0009940	abnormal hippocampus pyramidal cell morphology	0.998448152	1.04100065
ENSG00000136146	MED4 subnetwork	0.407579344	1.041005199
ENSG00000126214	KLC1 subnetwork	0.407746922	1.041016979
GO:0005523	tropomyosin binding	0.998432873	1.041043321
ENSG00000103426	CORO7 subnetwork	0.407386148	1.04106121
GO:2000177	regulation of neural precursor cell proliferation	0.998417612	1.041089609
ENSG00000124299	PEPD subnetwork	0.407671924	1.041093398
ENSG00000102780	DGKH subnetwork	0.404838883	1.041097923
ENSG00000150995	ITPR1 subnetwork	0.407990752	1.041099567
ENSG00000138071	ACTR2 subnetwork	0.408272467	1.041107266
ENSG00000090861	AARS subnetwork	0.40725856	1.041136167
GO:0048037	cofactor binding	0.998392571	1.041146736
ENSG00000089280	FUS subnetwork	0.407944838	1.041167302
KEGG_SPLICEOSOME	KEGG_SPLICEOSOME	0.407353842	1.04117239
GO:0030312	external encapsulating structure	0.99838885	1.041214704
ENSG00000054118	THRAP3 subnetwork	0.408247018	1.041218204
GO:0042533	tumor necrosis factor biosynthetic process	0.407252003	1.041282096
GO:0055008	cardiac muscle tissue morphogenesis	0.998388724	1.041289903
ENSG00000138668	HNRNP subnetwork	0.408205747	1.041320526
MP:0005223	abnormal anterior-posterior polarity of the somites	0.406991925	1.041336806
GO:0014033	neural crest cell differentiation	0.998386811	1.041361502
REACTOME_SRP:DEPENDENT_CO	REACTOME_SRP:DEPENDENT_COTRANSLATIONAL_PROT	0.407166274	1.041391878
ENSG00000163602	RYBP subnetwork	0.408510081	1.041395711
GO:0005543	phospholipid binding	0.407073827	1.041407742
MP:0006316	increased urine sodium level	0.408188886	1.041422884
GO:0090179	planar cell polarity pathway involved in neural tube closure	0.99838678	1.041436723
GO:0042534	regulation of tumor necrosis factor biosynthetic process	0.407252003	1.04146278
GO:0090178	regulation of establishment of planar polarity involved in	0.99838678	1.041511956
MP:0009289	decreased epididymal fat pad weight	0.408492534	1.041523958
GO:0006415	translational termination	0.408157387	1.041533934
GO:0035136	forelimb morphogenesis	0.998378829	1.041576362
MP:0003078	aphakia	0.998366114	1.041633552
ENSG00000008196	TFAP2B subnetwork	0.998364589	1.041708815
GO:0001843	neural tube closure	0.998353293	1.041769637
ENSG00000123384	LRP1 subnetwork	0.998352883	1.04184492
MP:0000516	abnormal renal/urinary system morphology	0.998350062	1.0419166
ENSG00000079819	EPB41L2 subnetwork	0.998349339	1.041991905
GO:0060026	convergent extension	0.998346469	1.042063607
ENSG00000131876	SNRPA1 subnetwork	0.40892468	1.042064315
REACTOME_MRNA_SPLICING_:	REACTOME_MRNA_SPLICING_:_MINOR_PATHWAY	0.408848929	1.042071589
GO:0042813	Wnt-activated receptor activity	0.998343125	1.042131704
GO:0060079	regulation of excitatory postsynaptic membrane potential	0.998335099	1.042203427
GO:0050803	regulation of synapse structure and activity	0.998334164	1.042278774
MP:0002110	abnormal digit morphology	0.998333137	1.042354132
GO:0030510	regulation of BMP signaling pathway	0.998305667	1.042378886
GO:0019439	aromatic compound catabolic process	0.998301707	1.042450647
ENSG00000092108	SCFD1 subnetwork	0.409141947	1.042480553
GO:0008509	anion transmembrane transporter activity	0.998299884	1.042526034
ENSG00000166411	IDH3A subnetwork	0.409389557	1.042544921
ENSG00000174622	ENSG00000174622 subnetwork	0.998288635	1.042586968
ENSG00000198728	LDB1 subnetwork	0.998284825	1.042655142

GO:0031589	cell-substrate adhesion	0.409377661	1.042707793
ENSG00000007372	PAX6 subnetwork	0.998282169	1.042726944
GO:0008235	metalloexopeptidase activity	0.409317313	1.042732458
MP:0000438	abnormal cranium morphology	0.998272435	1.042787905
GO:0010765	positive regulation of sodium ion transport	0.998272252	1.042863344
GO:0031406	carboxylic acid binding	0.998272213	1.042938793
GO:0045739	positive regulation of DNA repair	0.998263987	1.043010636
GO:0031345	negative regulation of cell projection organization	0.998254653	1.043075253
REACTOME_POST:TRANSLATIONA	REACTOME_POST:TRANSLATIONAL_PROTEIN_MODIFICA	0.409654514	1.043090344
MP:0009453	enhanced contextual conditioning behavior	0.998245909	1.04313988
ENSG00000032742	IFT88 subnetwork	0.998239218	1.043208134
GO:0014020	primary neural tube formation	0.998236621	1.043283636
GO:0046134	pyrimidine nucleoside biosynthetic process	0.998226873	1.043337435
MP:0005205	abnormal eye anterior chamber morphology	0.998223197	1.043412957
GO:0030902	hindbrain development	0.998222569	1.04348487
GO:0009954	proximal/distal pattern formation	0.998208206	1.043545935
GO:0007158	neuron cell-cell adhesion	0.998207873	1.043621489
GO:0021545	cranial nerve development	0.998206792	1.043693433
ENSG000000213023	SYT3 subnetwork	0.998205288	1.043769008
ENSG000000158691	ZSCAN12 subnetwork	0.410148123	1.043776972
ENSG000000206380	C6orf48 subnetwork	0.410095469	1.04378453
ENSG000000137474	MYO7A subnetwork	0.998194207	1.043833732
ENSG000000141279	NPEPPS subnetwork	0.410297683	1.043839517
GO:0030832	regulation of actin filament length	0.410234804	1.043847083
GO:0002526	acute inflammatory response	0.410389904	1.04386646
GO:0009070	serine family amino acid biosynthetic process	0.998193034	1.043909328
MP:0000130	abnormal trabecular bone morphology	0.410612313	1.043955854
ENSG000000204387	C6orf48 subnetwork	0.410095469	1.043964773
GO:0009124	nucleoside monophosphate biosynthetic process	0.998192831	1.043984935
ENSG000000088833	NSFL1C subnetwork	0.410494977	1.04400552
GO:0007519	skeletal muscle tissue development	0.410550762	1.044015178
GO:0007512	adult heart development	0.998192753	1.044060553
GO:0015179	L-amino acid transmembrane transporter activity	0.998189113	1.044132561
ENSG000000206271	ENSG000000206271 subnetwork	0.410095469	1.044145078
GO:0031290	retinal ganglion cell axon guidance	0.998183485	1.044197334
GO:0044089	positive regulation of cellular component biogenesis	0.998171158	1.044247627
ENSG000000170043	TRAPPC1 subnetwork	0.410813925	1.044301724
MP:0004726	abnormal nasal capsule morphology	0.998155751	1.044305173
ENSG000000168615	ADAM9 subnetwork	0.410891008	1.044354422
GO:0010659	cardiac muscle cell apoptotic process	0.998151658	1.044369973
GO:0001158	enhancer sequence-specific DNA binding	0.998147378	1.044442029
GO:0070411	I-SMAD binding	0.411461262	1.04447314
GO:0005245	voltage-gated calcium channel activity	0.998142629	1.044510472
ENSG000000204523	ENSG000000204523 subnetwork	0.411077319	1.044553602
GO:0008214	protein dealkylation	0.411396847	1.044558292
MP:0000564	syndactyly	0.998136918	1.044571677
ENSG000000116171	SCP2 subnetwork	0.411166749	1.044632087
GO:0022804	active transmembrane transporter activity	0.998133606	1.044636515
ENSG000000169251	NMD3 subnetwork	0.41169602	1.044690189
GO:0015909	long-chain fatty acid transport	0.998128987	1.044712235
GO:0006482	protein demethylation	0.411396847	1.044738202
ENSG000000165494	PCF11 subnetwork	0.411640453	1.044766741
REACTOME_GABA_A_RECEPTOR	REACTOME_GABA_A_RECEPTOR_ACTIVATION	0.998126505	1.044787967
ENSG000000125675	GRIA3 subnetwork	0.998122031	1.044863709

ENSG00000110876	SELPLG subnetwork	0.411304938	1.04486561
GO:0071339	MLL1 complex	0.411388826	1.044909561
GO:0030148	sphingolipid biosynthetic process	0.998121294	1.044932212
ENSG00000163634	THOC7 subnetwork	0.411856116	1.044983652
GO:0034374	low-density lipoprotein particle remodeling	0.998117237	1.0449971
MP:0000781	decreased corpus callosum size	0.998108477	1.045069248
GO:0009069	serine family amino acid metabolic process	0.998089272	1.045123278
REACTOME_REGULATION_OF_IFN	REACTOME_REGULATION_OF_IFNA_SIGNALING	0.41198039	1.045182381
GO:0007164	establishment of tissue polarity	0.998082879	1.04519182
GO:0015807	L-amino acid transport	0.998082476	1.045267624
KEGG_GLYCOSAMINOGLYCAN_BI	KEGG_GLYCOSAMINOGLYCAN_BIOSYNTHESIS_HEPARAN	0.998078652	1.045343439
ENSG00000166401	SERPINB8 subnetwork	0.412674998	1.045344443
GO:0051955	regulation of amino acid transport	0.998065497	1.045404758
ENSG00000204580	DDR1 subnetwork	0.412635472	1.045429553
GO:0022839	ion gated channel activity	0.412149706	1.045449854
GO:0016853	isomerase activity	0.412215645	1.045450636
ENSG00000169992	NLGN2 subnetwork	0.99805765	1.045476968
GO:0007160	cell-matrix adhesion	0.412380887	1.045520206
MP:0000195	hypocalcemia	0.4132415	1.04552162
MP:0001360	abnormal social investigation	0.998054276	1.045549187
GO:0051931	regulation of sensory perception	0.412921403	1.04557864
GO:0060603	mammary gland duct morphogenesis	0.412825353	1.045594297
GO:0071774	response to fibroblast growth factor stimulus	0.413208992	1.045606659
ENSG00000137332	DDR1 subnetwork	0.412635472	1.045609211
MP:0000554	abnormal carpal bone morphology	0.998047865	1.045610535
REACTOME_PHOSPHOLIPASE_C:M	REACTOME_PHOSPHOLIPASE_C:MEDIATED_CASCADE	0.412488194	1.045632737
ENSG00000172057	ORMDL3 subnetwork	0.998047043	1.045679147
GO:0032846	positive regulation of homeostatic process	0.413054691	1.045690987
ENSG00000114019	AMOTL2 subnetwork	0.998032203	1.045729628
GO:0051930	regulation of sensory perception of pain	0.412921403	1.0457582
GO:0044344	cellular response to fibroblast growth factor stimulus	0.413208992	1.045786131
ENSG00000215522	DDR1 subnetwork	0.412635472	1.045788931
ENSG00000171564	FGB subnetwork	0.413444664	1.045789022
GO:0043555	regulation of translation in response to stress	0.412588201	1.045796802
GO:0031012	extracellular matrix	0.998031864	1.045805515
GO:0007620	copulation	0.99802947	1.045881414
ENSG00000147601	TERF1 subnetwork	0.413415859	1.045891233
ENSG00000128050	PAICS subnetwork	0.998015106	1.045910147
GO:0031396	regulation of protein ubiquitination	0.998005321	1.045975176
GO:0007589	body fluid secretion	0.413800452	1.045981148
REACTOME_TRAFFICKING_OF_GL	REACTOME_TRAFFICKING_OF_GLUR2:CONTAINING_AM	0.99800242	1.046051103
ENSG00000001630	CYP51A1 subnetwork	0.41377651	1.046100446
MP:0004792	abnormal synaptic vesicle number	0.997994228	1.046116152
MP:0000298	absent atrioventricular cushions	0.413734033	1.046176924
GO:0021871	forebrain regionalization	0.997991279	1.046184841
MP:0005178	increased circulating cholesterol level	0.414126226	1.046231586
GO:0042598	vesicular fraction	0.414036767	1.046239507
GO:0003207	cardiac chamber formation	0.997987328	1.046249909
MP:0004722	abnormal platelet dense granule number	0.413976212	1.0462817
GO:0004016	adenylate cyclase activity	0.997946267	1.046293204
ENSG00000160310	PRMT2 subnetwork	0.413715428	1.046313443
GO:0003206	cardiac chamber morphogenesis	0.997936172	1.046354658
GO:0045494	photoreceptor cell maintenance	0.997929943	1.046430646
GO:0035809	regulation of urine volume	0.414308372	1.046489125

ENSG00000159166	LAD1 subnetwork	0.413713289	1.046492883
GO:0005242	inward rectifier potassium channel activity	0.997926222	1.046506645
MP:0001327	decreased retinal photoreceptor cell number	0.414471106	1.046524568
ENSG00000161647	MPP3 subnetwork	0.997919946	1.046571761
ENSG00000120948	TARDBP subnetwork	0.414436259	1.046618151
GO:0005758	mitochondrial intermembrane space	0.414649343	1.046629021
MP:0008143	abnormal dendrite morphology	0.997916929	1.046647781
REACTOME_PHOSPHORYLATION_OF_THE_APCC	REACTOME_PHOSPHORYLATION_OF_THE_APCC	0.997905516	1.046709284
REACTOME_GPVI:MEDIATED_ACTIVATION_CASCADE	REACTOME_GPVI:MEDIATED_ACTIVATION_CASCADE	0.414635017	1.046739689
GO:0046943	carboxylic acid transmembrane transporter activity	0.997899889	1.04677806
MP:0000049	abnormal middle ear morphology	0.997847926	1.046839352
GO:0043084	penile erection	0.9978918	1.046846847
ENSG00000113312	TTC1 subnetwork	0.997823126	1.046857288
ENSG00000132780	NASP subnetwork	0.414623595	1.046884629
GO:0045880	positive regulation of smoothened signaling pathway	0.997808247	1.046889761
GO:0050686	negative regulation of mRNA processing	0.997794723	1.046940407
GO:0050819	negative regulation of coagulation	0.997787005	1.047012864
GO:0006749	glutathione metabolic process	0.997780112	1.047085332
ENSG00000170486	KRT72 subnetwork	0.415120689	1.047161423
GO:0046467	membrane lipid biosynthetic process	0.997778269	1.047161445
ENSG00000026025	VIM subnetwork	0.415185651	1.047179005
GO:0009799	specification of symmetry	0.997746821	1.047190317
GO:0002028	regulation of sodium ion transport	0.997719757	1.047211923
GO:0032095	regulation of response to food	0.997682724	1.047218991
ENSG00000077264	PAK3 subnetwork	0.415067729	1.047246451
GO:0015849	organic acid transport	0.997650103	1.047255144
GO:0005234	extracellular-glutamate-gated ion channel activity	0.997634082	1.047298575
GO:0060996	dendritic spine development	0.997616567	1.047345648
MP:0008788	abnormal fetal cardiomyocyte morphology	0.414963587	1.047348161
GO:0032868	response to insulin stimulus	0.415058352	1.047417037
GO:0005578	proteinaceous extracellular matrix	0.997614658	1.047421818
REACTOME_APC:CDC20_MEDIATED_DEGRADATION_OF	REACTOME_APC:CDC20_MEDIATED_DEGRADATION_OF	0.997605719	1.04748709
GO:0035510	DNA dealkylation	0.415338523	1.047538462
GO:0021700	developmental maturation	0.99760369	1.047559645
GO:0072073	kidney epithelium development	0.997592774	1.047624936
ENSG00000158445	KCNB1 subnetwork	0.997589658	1.047693875
MP:0010404	ostium primum atrial septal defect	0.997581252	1.047759185
GO:0035019	somatic stem cell maintenance	0.997556437	1.047806315
MP:0006142	abnormal sinoatrial node conduction	0.997540908	1.04787892
ENSG00000140939	NOL3 subnetwork	0.415527065	1.04788925
GO:0070566	adenylyltransferase activity	0.997517867	1.047936982
GO:0051000	positive regulation of nitric-oxide synthase activity	0.415620388	1.047957963
ENSG00000183598	HIST2H3D subnetwork	0.415932282	1.047967896
ENSG00000067836	ROGDI subnetwork	0.997508676	1.047980496
REACTOME_CHAPERONIN:MEDIATED_PROTEIN_FOLDING	REACTOME_CHAPERONIN:MEDIATED_PROTEIN_FOLDING	0.415797404	1.048001367
ENSG00000136636	KCTD3 subnetwork	0.415719099	1.048009568
MP:0000531	right pulmonary isomerism	0.997487818	1.0480131
GO:0005095	GTPase inhibitor activity	0.415995996	1.048028001
ENSG00000109472	CPE subnetwork	0.997487301	1.048089381
GO:0070838	divalent metal ion transport	0.416049168	1.04809662
ENSG00000203811	HIST2H3C subnetwork	0.415932282	1.048146883
GO:0001891	phagocytic cup	0.416155007	1.048156682
GO:0030195	negative regulation of blood coagulation	0.997483922	1.048162032
ENSG00000109917	ZNF259 subnetwork	0.997469246	1.048220135

REACTOME_INACTIVATION_OF_A	REACTOME_INACTIVATION_OF_APCC_VIA_DIRECT_INHI	0.997458806	1.048285527
REACTOME_INHIBITION_OF_THE	REACTOME_INHIBITION_OF_THE_PROTEOLYTIC_ACTIVIT	0.997458806	1.048361849
GO:0007600	sensory perception	0.99744572	1.04842362
GO:0003205	cardiac chamber development	0.997438083	1.048496323
KEGG_RNA_POLYMERASE	KEGG_RNA_POLYMERASE	0.416385828	1.048523891
GO:0050768	negative regulation of neurogenesis	0.997428948	1.048565395
GO:0008203	cholesterol metabolic process	0.41656646	1.04860116
MP:0002988	decreased urine osmolality	0.416625806	1.048601399
GO:0051937	catecholamine transport	0.997426015	1.04864176
ENSG00000198822	GRM3 subnetwork	0.997425968	1.048718135
GO:0042623	ATPase activity, coupled	0.416556636	1.048737417
MP:0000373	belly spot	0.997425791	1.048794523
ENSG00000035403	VCL subnetwork	0.416984856	1.048815408
GO:0050661	NADP binding	0.997419497	1.048867279
ENSG00000141456	ENSG00000141456 subnetwork	0.416952172	1.048900443
ENSG00000099365	STX1B subnetwork	0.997406966	1.048929118
MP:0002641	anisopoikilocytosis	0.416862018	1.048959754
MP:0002736	abnormal nociception after inflammation	0.997405749	1.049005537
ENSG00000135698	MPHOSPH6 subnetwork	0.416925989	1.049028133
REACTOME_ANTIGEN_PRESENTA	REACTOME_ANTIGEN_PRESENTATION_FOLDING_ASSEM	0.417259829	1.049045997
MP:0001489	decreased startle reflex	0.997394926	1.049078324
ENSG00000113569	NUP155 subnetwork	0.417419873	1.049097411
ENSG00000169347	GP2 subnetwork	0.417371818	1.049122807
GO:0046395	carboxylic acid catabolic process	0.997390642	1.049151122
ENSG00000188529	SRSF10 subnetwork	0.417257937	1.04922474
GO:0016054	organic acid catabolic process	0.997390642	1.049227574
ENSG00000184702	SEPT5 subnetwork	0.997390591	1.049304037
GO:0042053	regulation of dopamine metabolic process	0.997360582	1.049311275
GO:0070410	co-SMAD binding	0.417236882	1.04935242
GO:0045601	regulation of endothelial cell differentiation	0.997357543	1.049384111
MP:0000854	abnormal cerebellum development	0.997348663	1.049460602
GO:0008652	cellular amino acid biosynthetic process	0.997347609	1.049537105
GO:0016917	GABA receptor activity	0.997322961	1.049584457
GO:0021987	cerebral cortex development	0.997314121	1.049646398
GO:0017147	Wnt-protein binding	0.997301163	1.049711994
ENSG00000184486	POU3F2 subnetwork	0.997300995	1.049788537
GO:0042476	odontogenesis	0.997297976	1.049861445
GO:0007219	Notch signaling pathway	0.997296685	1.049938011
ENSG00000133112	TPT1 subnetwork	0.997286686	1.050003647
GO:0045598	regulation of fat cell differentiation	0.417855167	1.050025541
REACTOME_CLASS_B2_SECRETIN	REACTOME_CLASS_B2_SECRETIN_FAMILY_RECEPTORS	0.997265971	1.050054705
KEGG_LYSOSOME	KEGG_LYSOSOME	0.997255361	1.050120359
GO:0044309	neuron spine	0.997237237	1.050164138
GO:0043197	dendritic spine	0.997237237	1.050240753
ENSG00000100109	TFIP11 subnetwork	0.417998541	1.050289411
MP:0001384	abnormal pup retrieval	0.997236618	1.050317379
MP:0003787	abnormal imprinting	0.997235501	1.050394017
GO:0050995	negative regulation of lipid catabolic process	0.997230592	1.05045972
GO:0008202	steroid metabolic process	0.418136835	1.050468085
MP:0002682	decreased mature ovarian follicle number	0.418254796	1.050518972
GO:0032489	regulation of Cdc42 protein signal transduction	0.997227224	1.050529081
ENSG00000150086	GRIN2B subnetwork	0.418189259	1.050536079
GO:0043088	regulation of Cdc42 GTPase activity	0.997227224	1.050605751
GO:0051443	positive regulation of ubiquitin-protein ligase activity	0.997224403	1.050678783

GO:0002720	positive regulation of cytokine production involved in im	0.419207207	1.050687606
GO:0000079	regulation of cyclin-dependent protein kinase activity	0.997210296	1.050737226
GO:0007050	cell cycle arrest	0.418521933	1.050765306
MP:0008260	abnormal autophagy	0.997209509	1.050802978
MP:0005130	decreased follicle stimulating hormone level	0.997140324	1.050810337
ENSG00000145794	MEGF10 subnetwork	0.419186533	1.05083206
ENSG00000133937	GSC subnetwork	0.419133639	1.050840693
REACTOME_ROLE_OF_DCC_IN_RI	REACTOME_ROLE_OF_DCC_IN_REGULATING_APOPTOSI	0.997098704	1.050850551
MP:0009831	abnormal sperm midpiece morphology	0.418482409	1.050884504
REACTOME_APCCDC20_MEDIAT	REACTOME_APCCDC20_MEDIATED_DEGRADATION_OF	0.997093917	1.050909025
GO:0001960	negative regulation of cytokine-mediated signaling pathv	0.419115517	1.050959742
MP:0001322	abnormal iris morphology	0.997080896	1.050967506
GO:0032312	regulation of ARF GTPase activity	0.418997016	1.050994053
GO:0006413	translational initiation	0.418938749	1.050994222
MP:0000807	abnormal hippocampus morphology	0.997064585	1.051022346
ENSG00000160789	LMNA subnetwork	0.419072238	1.051027863
GO:0045649	regulation of macrophage differentiation	0.418471258	1.051037768
MP:0002229	neurodegeneration	0.418735794	1.051054242
ENSG00000013441	CLK1 subnetwork	0.419650995	1.051068884
MP:0005602	decreased angiogenesis	0.419579744	1.05107755
MP:0002938	white spotting	0.997062657	1.051099102
ENSG00000053372	MRT04 subnetwork	0.419458072	1.051111866
GO:0000217	DNA secondary structure binding	0.418931441	1.051130376
GO:0051354	negative regulation of oxidoreductase activity	0.997035815	1.051139351
GO:0010623	developmental programmed cell death	0.418860057	1.05116457
ENSG00000147382	FAM58A subnetwork	0.419767145	1.051170483
ENSG00000106278	PTPRZ1 subnetwork	0.997030953	1.051212475
GO:0016126	sterol biosynthetic process	0.419566703	1.051221996
GO:0031998	regulation of fatty acid beta-oxidation	0.997016465	1.051267348
GO:0006520	cellular amino acid metabolic process	0.997009164	1.051333187
GO:0040036	regulation of fibroblast growth factor receptor signaling	0.99699532	1.051388077
ENSG00000145819	ARHGAP26 subnetwork	0.419951997	1.051450136
ENSG00000162735	PEX19 subnetwork	0.996976062	1.051457587
GO:0016705	oxidoreductase activity, acting on paired donors, with in	0.420111995	1.051492031
ENSG00000143753	DEGS1 subnetwork	0.420020866	1.051492284
ENSG00000169188	APEX2 subnetwork	0.996957405	1.051508841
GO:0016504	peptidase activator activity	0.420257941	1.051525424
ENSG00000157152	ENSG00000157152 subnetwork	0.996946832	1.051560102
KEGG_NEUROACTIVE_LIGAND_RE	KEGG_NEUROACTIVE_LIGAND_RECEPTOR_INTERACTION	0.996943487	1.051625987
ENSG00000013573	DDX11 subnetwork	0.420367625	1.051669209
GO:0008308	voltage-gated anion channel activity	0.420242561	1.051678251
GO:0007216	G-protein coupled glutamate receptor signaling pathway	0.99694185	1.051702843
ENSG00000169744	LDB2 subnetwork	0.996933601	1.051768747
GO:0001656	metanephros development	0.996922322	1.051823697
GO:0031111	negative regulation of microtubule polymerization or de	0.996916922	1.051875
GO:0031683	G-protein beta/gamma-subunit complex binding	0.996899567	1.051929966
GO:0006740	NADPH regeneration	0.996898634	1.052006872
MP:0000890	thin cerebellar molecular layer	0.420646149	1.052050152
ENSG00000142230	SAE1 subnetwork	0.996893378	1.052076479
GO:0017145	stem cell division	0.99687474	1.052138783
MP:0004136	abnormal tongue muscle morphology	0.996870549	1.052212066
GO:0001709	cell fate determination	0.996867976	1.052289016
GO:0048635	negative regulation of muscle organ development	0.996862388	1.052355006
MP:0002761	abnormal hippocampal mossy fiber morphology	0.99685935	1.052428321

GO:0043176	amine binding	0.996858712	1.052505303
REACTOME_ACTIVATION_OF_GABAB_RECEPTORS	REACTOME_ACTIVATION_OF_GABAB_RECEPTORS	0.996853556	1.052574982
REACTOME_GABA_B_RECEPTOR_ACTIVATION	REACTOME_GABA_B_RECEPTOR_ACTIVATION	0.996853556	1.052651986
GO:0010720	positive regulation of cell development	0.99679102	1.052692617
GO:0005253	anion channel activity	0.996845685	1.052703395
GO:0050770	regulation of axonogenesis	0.996765455	1.052740378
ENSG00000170296	GABARAP subnetwork	0.99676242	1.052802781
ENSG00000170445	HARS subnetwork	0.421031364	1.05282907
REACTOME_NEUROTRANSMITTER_RECEPTOR_BINDING	REACTOME_NEUROTRANSMITTER_RECEPTOR_BINDING	0.996752708	1.052872512
GO:0051647	nucleus localization	0.421534353	1.052876967
GO:0030276	clathrin binding	0.421495526	1.052911307
ENSG00000145375	SPATA5 subnetwork	0.4213545	1.052929225
ENSG00000125651	GTF2F1 subnetwork	0.421690641	1.052935206
GO:0009855	determination of bilateral symmetry	0.99674835	1.052942253
ENSG00000174177	CTU2 subnetwork	0.421620391	1.052961083
GO:0009798	axis specification	0.996742377	1.053012004
MP:0008022	dilated heart ventricle	0.421460713	1.053038768
ENSG00000101144	BMP7 subnetwork	0.421313074	1.053048264
GO:0001823	mesonephros development	0.996733841	1.053078106
GO:0006739	NADP metabolic process	0.996733789	1.053155198
MP:0001469	abnormal contextual conditioning behavior	0.996715018	1.053192035
GO:0001948	glycoprotein binding	0.422198095	1.053220081
MP:0003657	abnormal erythrocyte osmotic lysis	0.421312568	1.053226626
GO:0046942	carboxylic acid transport	0.996695173	1.053236199
ENSG00000212802	ENSG00000212802 subnetwork	0.422062283	1.053246534
KEGG_GLYCOPHINGOLIPID_BIOSYNTHESIS_GLOBO_SER	KEGG_GLYCOPHINGOLIPID_BIOSYNTHESIS_GLOBO_SER	0.996670021	1.053280369
GO:0060997	dendritic spine morphogenesis	0.996652173	1.053331869
GO:0048009	insulin-like growth factor receptor signaling pathway	0.422278328	1.053333784
GO:0008022	protein C-terminus binding	0.422192066	1.053372781
GO:0097061	dendritic spine organization	0.996652173	1.053409008
GO:0007141	male meiosis I	0.421979198	1.053416779
ENSG00000174766	ENSG00000174766 subnetwork	0.422062283	1.053424658
MP:0004765	decreased brainstem auditory evoked potential	0.996651138	1.053486158
ENSG00000125354	SEPT6 subnetwork	0.996641978	1.053559657
MP:0005294	abnormal heart ventricle morphology	0.422426021	1.053573843
GO:0034435	cholesterol esterification	0.996638496	1.053629505
ENSG00000135823	STX6 subnetwork	0.422549871	1.053649265
GO:0034433	steroid esterification	0.996638496	1.053706688
GO:0051018	protein kinase A binding	0.422709947	1.053749367
ENSG00000124006	OBSL1 subnetwork	0.422669974	1.053775338
GO:0034434	sterol esterification	0.996638496	1.053783883
MP:0004830	short incisors	0.996631256	1.053857425
GO:0016409	palmitoyltransferase activity	0.996625776	1.053927315
GO:0009112	nucleobase metabolic process	0.996567152	1.053934931
REACTOME_AMINE_COMPOUND_SLC_TRANSPORTERS	REACTOME_AMINE_COMPOUND_SLC_TRANSPORTERS	0.996551223	1.05399018
MP:0009546	absent gastric milk in neonates	0.996550401	1.054067424
GO:0050974	detection of mechanical stimulus involved in sensory perception	0.996484599	1.054075051
REACTOME_REDUCTION_OF_CYTOSOLIC_CA_LEVELS	REACTOME_REDUCTION_OF_CYTOSOLIC_CA_LEVELS	0.423247948	1.054133626
GO:0048521	negative regulation of behavior	0.996410054	1.054137956
ENSG00000129245	FXR2 subnetwork	0.996461363	1.054141318
MP:0003408	increased width of hypertrophic chondrocyte zone	0.424761218	1.054170871
MP:0000243	myoclonus	0.996406255	1.054215233
ENSG00000171992	SYNPO subnetwork	0.423231102	1.054269322
MP:0003425	abnormal optic vesicle formation	0.996403824	1.054285191

MP:0009862	abnormal aorta elastic tissue morphology	0.42474338	1.05432296
GO:0006013	mannose metabolic process	0.423504829	1.05434306
MP:0002919	enhanced paired-pulse facilitation	0.996399224	1.054355158
REACTOME_SHC1_EVENTS_IN_EC	REACTOME_SHC1_EVENTS_IN_EGFR_SIGNALING	0.424906946	1.054371952
ENSG00000167325	RRM1 subnetwork	0.422994738	1.054373522
ENSG00000131242	RAB11FIP4 subnetwork	0.423454037	1.054385965
MP:0001354	increased aggression towards males	0.424713604	1.054416218
GO:0008656	cysteine-type endopeptidase activator activity involved i	0.423228649	1.054421941
GO:0001964	startle response	0.996397591	1.054432468
ENSG00000165996	PTPLA subnetwork	0.425040338	1.054446125
ENSG00000166866	MYO1A subnetwork	0.423112164	1.054448759
REACTOME_SLC:MEDIATED_TRAN	REACTOME_SLC:MEDIATED_TRANSMEMBRANE_TRANSF	0.996393504	1.054502457
GO:2000191	regulation of fatty acid transport	0.423797187	1.054526298
ENSG00000051128	HOMER3 subnetwork	0.424689622	1.054534747
ENSG00000132872	SYT4 subnetwork	0.996389321	1.054565122
ENSG00000104980	TIMM44 subnetwork	0.423226574	1.054591492
ENSG00000086232	EIF2AK1 subnetwork	0.425030428	1.054614997
MP:0003243	abnormal dopaminergic neuron morphology	0.996380131	1.054627796
REACTOME_METABOLISM_OF_ST	REACTOME_METABOLISM_OF_STEROID_HORMONES_A	0.423769901	1.054653515
GO:0006414	translational elongation	0.42548811	1.054686713
ENSG00000133816	MICAL2 subnetwork	0.996377059	1.054694147
ENSG00000068976	PYGM subnetwork	0.42467205	1.054695389
ENSG00000148297	MED22 subnetwork	0.425960881	1.054715556
MP:0003912	decreased drinking behavior	0.996353476	1.054760508
ENSG00000105486	LIG1 subnetwork	0.423747453	1.054763912
KEGG_ALZHEIMERS_DISEASE	KEGG_ALZHEIMERS_DISEASE	0.425422079	1.054771505
ENSG00000072315	TRPC5 subnetwork	0.424445177	1.054773531
GO:0071363	cellular response to growth factor stimulus	0.424635941	1.054805588
ENSG00000147416	ATP6V1B2 subnetwork	0.425372777	1.054822719
ENSG00000125814	NAPB subnetwork	0.996337728	1.054830546
ENSG00000105373	GLTSCR2 subnetwork	0.424304545	1.054867778
MP:0008528	polycystic kidney	0.425952688	1.054884189
MP:0003924	herniated diaphragm	0.424601935	1.054890572
GO:0004970	ionotropic glutamate receptor activity	0.996322912	1.054893258
ENSG00000105323	HNRNPUL1 subnetwork	0.424421476	1.05490064
ENSG00000058091	CDK14 subnetwork	0.42532116	1.054907563
MP:0000157	abnormal sternum morphology	0.426301568	1.054939618
ENSG00000198242	RPL23A subnetwork	0.426242986	1.054940446
ENSG00000175906	ARL4D subnetwork	0.425874733	1.054943764
MP:0000864	abnormal cerebellum vermis morphology	0.996308822	1.054959648
ENSG00000145782	ATG12 subnetwork	0.424284503	1.055003369
ENSG00000155111	CDK19 subnetwork	0.42579405	1.055011753
GO:0016805	dipeptidase activity	0.99629335	1.055022379
MP:0003830	abnormal testis development	0.426180773	1.055025168
GO:0030286	dynein complex	0.425656194	1.055047027
GO:0033119	negative regulation of RNA splicing	0.99629164	1.055099795
ENSG00000137673	MMP7 subnetwork	0.425763859	1.055130143
ENSG00000104897	SF3A2 subnetwork	0.424277561	1.055155855
MP:0002910	abnormal excitatory postsynaptic currents	0.996286179	1.055173553
MP:0001935	decreased litter size	0.426549994	1.055196982
GO:0010800	positive regulation of peptidyl-threonine phosphorylatio	0.424229332	1.055232558
ENSG00000035862	TIMP2 subnetwork	0.996283698	1.055247321
MP:0003271	abnormal duodenum morphology	0.426513779	1.055298457
GO:0090102	cochlea development	0.996269243	1.055313761

ENSG00000151292	CSNK1G3 subnetwork	0.42646374	1.055332886
ENSG00000073711	PPP2R3A subnetwork	0.424221027	1.055376707
GO:0016042	lipid catabolic process	0.996268185	1.055387551
ENSG00000130638	ATXN10 subnetwork	0.996240685	1.055439331
GO:0004065	arylsulfatase activity	0.996239665	1.055516811
ENSG00000155130	MARCKS subnetwork	0.996205607	1.055550253
MP:0008918	microgliosis	0.427257318	1.055575088
MP:0005358	abnormal incisor morphology	0.99619866	1.055620411
GO:0000723	telomere maintenance	0.42705645	1.055628141
ENSG00000135100	HNF1A subnetwork	0.426900926	1.055630027
MP:0006298	abnormal platelet activation	0.426838019	1.055647729
ENSG00000108387	SEPT4 subnetwork	0.996184284	1.055668551
ENSG00000184313	HEATR8 subnetwork	0.427399803	1.055682959
GO:0005048	signal sequence binding	0.427253329	1.05574347
GO:0045103	intermediate filament-based process	0.996183735	1.055746071
ENSG00000130733	YIPF2 subnetwork	0.426815246	1.055757627
MP:0002095	abnormal skin pigmentation	0.427033488	1.055771486
ENSG00000152661	GJA1 subnetwork	0.427505965	1.055799163
MP:0000279	ventricular hypoplasia	0.427165164	1.055803048
GO:0042133	neurotransmitter metabolic process	0.996177288	1.055812587
ENSG00000198641	ENSG00000198641 subnetwork	0.42761285	1.05583905
GO:0006029	proteoglycan metabolic process	0.996176798	1.055890129
ENSG00000141570	CBX8 subnetwork	0.427605559	1.055898594
ENSG00000183508	FAM46C subnetwork	0.996158758	1.055930959
GO:0042481	regulation of odontogenesis	0.996157399	1.056001175
GO:0060993	kidney morphogenesis	0.996146777	1.056075075
GO:0051899	membrane depolarization	0.996143784	1.056148986
GO:0030204	chondroitin sulfate metabolic process	0.427798382	1.056214453
GO:0072528	pyrimidine-containing compound biosynthetic process	0.996133885	1.056222908
GO:0046129	purine ribonucleoside biosynthetic process	0.996120872	1.056278472
ENSG00000148925	BTBD10 subnetwork	0.429255672	1.05630105
ENSG00000163288	GABRB1 subnetwork	0.427894706	1.056338853
GO:0042455	ribonucleoside biosynthetic process	0.996120872	1.056356088
GO:0042451	purine nucleoside biosynthetic process	0.996120872	1.056433715
ENSG00000126883	NUP214 subnetwork	0.42924009	1.056452151
GO:0006369	termination of RNA polymerase II transcription	0.99610541	1.056496656
GO:0030539	male genitalia development	0.996082441	1.056548582
MP:0006089	abnormal vestibular sacculle morphology	0.996081282	1.056622565
ENSG00000156508	EEF1A1 subnetwork	0.429238994	1.056628314
ENSG00000197279	ZNF165 subnetwork	0.996076911	1.056692884
ENSG00000105248	CCDC94 subnetwork	0.42921333	1.056721147
MP:0001634	internal hemorrhage	0.428200176	1.056746363
GO:0048266	behavioral response to pain	0.996070902	1.056755863
GO:0045335	phagocytic vesicle	0.428139381	1.056780936
ENSG00000078018	MAP2 subnetwork	0.996046265	1.056796795
GO:0005275	amine transmembrane transporter activity	0.996046008	1.056874495
GO:0046545	development of primary female sexual characteristics	0.429204698	1.056897415
GO:0051962	positive regulation of nervous system development	0.996040174	1.056944853
GO:0051965	positive regulation of synapse assembly	0.996040174	1.057022575
ENSG00000112526	ENSG00000112526 subnetwork	0.42917448	1.05702369
GO:0043266	regulation of potassium ion transport	0.996019555	1.057085601
GO:0016896	exoribonuclease activity, producing 5'-phosphomonoester	0.428428893	1.057154798
MP:0000848	abnormal pons morphology	0.996016576	1.057159668
ENSG00000215077	BRD2 subnetwork	0.42917448	1.057200067

ENSG00000085563	ABCB1 subnetwork	0.428505804	1.057203744
GO:0048854	brain morphogenesis	0.996008569	1.057219035
MP:0004227	increased cellular sensitivity to ionizing radiation	0.429662368	1.057258333
KEGG_GLUTATHIONE_METABOLISM	KEGG_GLUTATHIONE_METABOLISM	0.996003621	1.057285767
ENSG00000162368	CMPK1 subnetwork	0.428588062	1.057286096
GO:0016486	peptide hormone processing	0.995978418	1.057315728
ENSG00000128641	MYO1B subnetwork	0.429870602	1.057321339
ENSG00000126821	SGPP1 subnetwork	0.428687973	1.05732665
GO:0005792	microsome	0.430504619	1.057344868
ENSG00000204256	BRD2 subnetwork	0.42917448	1.057376502
GO:0071901	negative regulation of protein serine/threonine kinase activity	0.430103319	1.057385512
GO:0008188	neuropeptide receptor activity	0.995929086	1.057390377
REACTOME_VOLTAGE_GATED_POTASSIUM_CHANNELS	REACTOME_VOLTAGE_GATED_POTASSIUM_CHANNELS	0.995975963	1.057393511
MP:0005478	decreased circulating thyroxine level	0.430036417	1.057411726
GO:0021915	neural tube development	0.995928176	1.057464499
ENSG00000041357	PSMA4 subnetwork	0.429129114	1.057477883
GO:0005506	iron ion binding	0.429868228	1.057497501
GO:0045123	cellular extravasation	0.429808151	1.057507082
MP:0004003	abnormal vascular endothelial cell physiology	0.430636156	1.057518297
KEGG_STEROID_HORMONE_BIOSYNTHESIS	KEGG_STEROID_HORMONE_BIOSYNTHESIS	0.430496582	1.057520799
GO:0019370	leukotriene biosynthetic process	0.429085735	1.057520868
GO:0006521	regulation of cellular amino acid metabolic process	0.995899765	1.057523915
GO:0021955	central nervous system neuron axonogenesis	0.995878827	1.057575981
ENSG00000065978	YBX1 subnetwork	0.430453439	1.057588617
GO:0007423	sensory organ development	0.995868172	1.057642773
ENSG00000066032	CTNNA2 subnetwork	0.430411356	1.057648136
GO:0043450	alkene biosynthetic process	0.429085735	1.057697445
ENSG00000090621	PABPC4 subnetwork	0.99585757	1.057705895
GO:0007140	male meiosis	0.43037679	1.057749292
GO:0035020	regulation of Rac protein signal transduction	0.995852881	1.057765347
REACTOME_SOS:MEDIATED_SIGNALLING	REACTOME_SOS:MEDIATED_SIGNALLING	0.429048293	1.057765531
GO:0060992	response to fungicide	0.995841096	1.057828487
GO:0008064	regulation of actin polymerization or depolymerization	0.430828046	1.057833028
GO:0072378	blood coagulation, fibrin clot formation	0.995817838	1.057884276
MP:0002089	abnormal postnatal growth/weight/body size	0.430372678	1.057908758
GO:0015171	amino acid transmembrane transporter activity	0.995779408	1.057914305
ENSG00000143079	CTTNBP2NL subnetwork	0.429046458	1.057942208
GO:0006885	regulation of pH	0.995739682	1.057951701
GO:0010498	proteasomal protein catabolic process	0.9957375	1.058025919
ENSG00000151623	NR3C2 subnetwork	0.431464613	1.058038532
ENSG00000099882	ENSG00000099882 subnetwork	0.428998396	1.058043769
GO:0051705	behavioral interaction between organisms	0.995726964	1.058096465
GO:0071456	cellular response to hypoxia	0.431136585	1.058120013
ENSG00000100304	TTL12 subnetwork	0.431621839	1.058136832
MP:0005435	hemoperitoneum	0.431009132	1.058155969
MP:0011346	renal tubule atrophy	0.431440939	1.058164452
ENSG00000149294	NCAM1 subnetwork	0.995714892	1.058167023
GO:0007130	synaptonemal complex assembly	0.431062181	1.058171239
GO:0009311	oligosaccharide metabolic process	0.995708423	1.058241273
MP:0009538	abnormal synapse morphology	0.995696814	1.058311851
ENSG00000084463	WBP11 subnetwork	0.431438113	1.058331949
GO:0048339	paraxial mesoderm development	0.431318485	1.058351338
MP:0011106	partial embryonic lethality before somite formation	0.431783971	1.058359621
MP:0000852	small cerebellum	0.995678022	1.058371391

ENSG00000142657	PGD subnetwork	0.431417335	1.058433034
GO:0003016	respiratory system process	0.995677538	1.058445672
ENSG00000196220	SRGAP3 subnetwork	0.995669902	1.058512598
GO:0048532	anatomical structure arrangement	0.995632541	1.058531644
GO:0042737	drug catabolic process	0.995619823	1.058580165
GO:0001649	osteoblast differentiation	0.995608425	1.058647115
GO:0007215	glutamate receptor signaling pathway	0.995603953	1.05871776
ENSG00000075624	ACTB subnetwork	0.432258094	1.058742535
ENSG00000121957	GPSM2 subnetwork	0.995597112	1.0587921
ENSG00000105613	MAST1 subnetwork	0.432220023	1.058793761
ENSG00000169045	HNRNPH1 subnetwork	0.43209593	1.058829876
MP:0009171	enlarged pancreatic islets	0.995595291	1.05886645
GO:0060081	membrane hyperpolarization	0.995565911	1.058907644
GO:0031952	regulation of protein autophosphorylation	0.432070964	1.058939243
ENSG00000138083	SIX3 subnetwork	0.432213474	1.058961168
MP:0002566	abnormal sexual interaction	0.995530245	1.058967271
GO:0016597	amino acid binding	0.995507599	1.059026907
GO:0042551	neuron maturation	0.995503045	1.059101298
GO:0016594	glycine binding	0.995484996	1.059172012
ENSG00000112448	ENSG00000112448 subnetwork	0.995454286	1.059202183
ENSG00000204713	TRIM27 subnetwork	0.995454286	1.059280289
MP:0011102	partial embryonic lethality	0.432606343	1.059311774
ENSG00000166716	ZNF592 subnetwork	0.432840537	1.059315432
ENSG00000215641	TRIM27 subnetwork	0.995454286	1.059358407
ENSG00000091436	ENSG00000091436 subnetwork	0.432569794	1.059363078
ENSG00000188459	ENSG00000188459 subnetwork	0.432788929	1.059375
GO:0030055	cell-substrate junction	0.432716651	1.059393135
ENSG00000151834	GABRA2 subnetwork	0.995447325	1.059432849
GO:0030166	proteoglycan biosynthetic process	0.995420369	1.059481487
GO:0030916	otic vesicle formation	0.995408074	1.059559637
ENSG00000181790	BAI1 subnetwork	0.995397232	1.059630422
GO:0003211	cardiac ventricle formation	0.995389961	1.059697529
ENSG00000125730	C3 subnetwork	0.433092806	1.05974478
MP:0000571	interdigital webbing	0.995384291	1.059772023
ENSG00000206466	GABBR1 subnetwork	0.995380948	1.059846528
ENSG00000204681	GABBR1 subnetwork	0.995380948	1.059924734
ENSG00000149503	INCENP subnetwork	0.433245752	1.05996686
ENSG00000206511	GABBR1 subnetwork	0.995380948	1.060002952
MP:0000180	abnormal circulating cholesterol level	0.433347152	1.060023194
MP:0005241	abnormal retinal ganglion layer morphology	0.995343277	1.06002952
MP:0003073	abnormal metacarpal bone morphology	0.995342293	1.060107757
GO:0035145	exon-exon junction complex	0.433563295	1.060127526
ENSG00000087263	OGFOD1 subnetwork	0.433625935	1.060134128
GO:0031076	embryonic camera-type eye development	0.995315275	1.060156481
GO:0048814	regulation of dendrite morphogenesis	0.995253871	1.060186757
ENSG00000141582	CBX4 subnetwork	0.434071489	1.060198511
GO:0016578	histone deubiquitination	0.433514588	1.060203744
ENSG00000147246	HTR2C subnetwork	0.995242062	1.06025395
MP:0002001	blindness	0.995192435	1.060262089
MP:0001148	enlarged testis	0.433758919	1.060289735
ENSG00000185432	METTL7A subnetwork	0.434530033	1.060305785
REACTOME_NACL:_DEPENDENT_	REACTOME_NACL:_DEPENDENT_NEUROTRANSMITTER_	0.995182814	1.060332989
GO:0001974	blood vessel remodeling	0.434063642	1.060373925
REACTOME_GAMMA:CARBOXYLA	REACTOME_GAMMA:CARBOXYLATION_TRANSPORT_AN	0.43421654	1.060378763

MP:0001915	intracranial hemorrhage	0.43396885	1.060402185
MP:0001516	abnormal motor coordination/ balance	0.995174818	1.060403899
MP:0004148	increased compact bone thickness	0.434319108	1.060434926
MP:0002920	decreased paired-pulse facilitation	0.995150641	1.060448974
REACTOME_TRANSPORT_TO_THE	REACTOME_TRANSPORT_TO_THE_GOLGI_AND_SUBSEQ	0.433930155	1.060470121
GO:0007368	determination of left/right symmetry	0.995129373	1.060475593
REACTOME_PEPTIDE_LIGAND:BIN	REACTOME_PEPTIDE_LIGAND:BINDING_RECEPTORS	0.434522269	1.060481071
MP:0005044	sepsis	0.434061346	1.060541122
ENSG00000137575	SDCBP subnetwork	0.995129147	1.060553914
REACTOME_METAL_ION_SLC_TR	REACTOME_METAL_ION_SLC_TRANSPORTERS	0.43445009	1.060565476
GO:0034707	chloride channel complex	0.995100754	1.060610089
ENSG00000117650	NEK2 subnetwork	0.995051242	1.060636726
MP:0002856	abnormal vestibular ganglion morphology	0.995047925	1.060715077
GO:0043496	regulation of protein homodimerization activity	0.434748429	1.060766815
GO:0051925	regulation of calcium ion transport via voltage-gated calc	0.995036043	1.060786052
GO:0007350	blastoderm segmentation	0.995019995	1.060831178
MP:0000813	abnormal hippocampus layer morphology	0.995013396	1.060902172
GO:0001945	lymph vessel development	0.995010078	1.060980566
ENSG00000176903	PNMA1 subnetwork	0.995005743	1.061055276
ENSG00000168924	LETM1 subnetwork	0.43490454	1.061087244
ENSG00000117528	ABCD3 subnetwork	0.994981755	1.061107826
MP:0005403	abnormal nerve conduction	0.99497848	1.061182557
ENSG0000010278	CD9 subnetwork	0.43557617	1.061202772
GO:0033275	actin-myosin filament sliding	0.994974536	1.061253603
GO:0010522	regulation of calcium ion transport into cytosol	0.435518824	1.061270627
ENSG00000137955	RABGGTB subnetwork	0.435060858	1.061275401
ENSG00000107447	DNTT subnetwork	0.436257572	1.061293245
REACTOME_SIGNALLING_TO_ERK	REACTOME_SIGNALLING_TO_ERKS	0.436486639	1.0612959
ENSG00000139618	BRCA2 subnetwork	0.436416016	1.061305995
GO:0030049	muscle filament sliding	0.994974536	1.061332052
ENSG00000143466	IKBKE subnetwork	0.436350283	1.061340801
ENSG00000113141	IK subnetwork	0.435710474	1.061357638
ENSG00000131941	RHPN2 subnetwork	0.435370524	1.061367013
GO:0032720	negative regulation of tumor necrosis factor production	0.435496946	1.061388018
GO:0060688	regulation of morphogenesis of a branching structure	0.99497361	1.061410512
GO:0031099	regeneration	0.436155248	1.061420567
REACTOME_ION_TRANSPORT_BY	REACTOME_ION_TRANSPORT_BY_P:TYPE_ATPASES	0.435191467	1.0614222
GO:0015269	calcium-activated potassium channel activity	0.435436243	1.061422912
ENSG00000160201	U2AF1 subnetwork	0.43524045	1.061445087
ENSG00000104637	ENSG00000104637 subnetwork	0.436256086	1.061459878
GO:0051213	dioxygenase activity	0.436119663	1.061463656
ENSG00000198569	SLC34A3 subnetwork	0.435349178	1.061467966
GO:0003924	GTPase activity	0.436589796	1.06147514
GO:0007076	mitotic chromosome condensation	0.994971244	1.061488984
ENSG00000176386	CDC26 subnetwork	0.994964796	1.061545287
GO:0019206	nucleoside kinase activity	0.99493273	1.061586809
ENSG00000112335	SNX3 subnetwork	0.435975691	1.061609499
MP:0004616	lumbar vertebral transformation	0.436118857	1.061630399
GO:0048701	embryonic cranial skeleton morphogenesis	0.994932136	1.061665311
ENSG00000203852	HIST2H3A subnetwork	0.435924193	1.061669141
GO:0051047	positive regulation of secretion	0.436059571	1.061673537
GO:0034505	tooth mineralization	0.994923187	1.061725336
MP:0002862	altered righting response	0.994918804	1.061789069
MP:0003137	abnormal impulse conducting system conduction	0.994901345	1.061849112

GO:0019717	synaptosome	0.994898547	1.061923959
GO:0007611	learning or memory	0.994891664	1.061995118
MP:0008540	abnormal cerebrum morphology	0.994869463	1.062040394
MP:0002059	abnormal seminal vesicle morphology	0.994834573	1.062074578
MP:0003921	abnormal heart left ventricle morphology	0.43761091	1.062095316
ENSG00000205420	KRT6A subnetwork	0.994819141	1.062123566
GO:0009310	amine catabolic process	0.994811064	1.062187361
GO:0032392	DNA geometric change	0.437593853	1.062220579
GO:0046486	glycerolipid metabolic process	0.437401078	1.062251274
MP:0008947	increased neuron number	0.994807849	1.062258566
GO:0021983	pituitary gland development	0.994792662	1.062311279
GO:0001504	neurotransmitter uptake	0.994785047	1.062382503
MP:0000410	waved hair	0.437378348	1.062393092
GO:0032508	DNA duplex unwinding	0.437593853	1.0623952
ENSG00000133318	RTN3 subnetwork	0.994752032	1.062438934
ENSG00000164597	COG5 subnetwork	0.437552278	1.062454785
ENSG00000108590	MED31 subnetwork	0.437345497	1.062460931
MP:0005195	abnormal posterior eye segment morphology	0.994734511	1.06248427
MP:0005114	premature hair loss	0.437217422	1.062489715
ENSG00000134333	LDHA subnetwork	0.437301383	1.062504113
MP:0001093	small trigeminal ganglion	0.994725618	1.062537015
MP:0009593	absent chorion	0.437164608	1.062549375
MP:0005236	abnormal olfactory nerve morphology	0.99469082	1.062563856
ENSG00000064999	ANKS1A subnetwork	0.438669554	1.06260456
MP:0000832	abnormal thalamus morphology	0.994678615	1.062627721
GO:0005254	chloride channel activity	0.994632207	1.062654572
GO:0030325	adrenal gland development	0.437136578	1.062658436
ENSG00000197766	CFD subnetwork	0.438610631	1.062680446
ENSG00000135744	AGT subnetwork	0.437969454	1.062690981
GO:0060119	inner ear receptor cell development	0.994608029	1.062711049
MP:0000951	sporadic seizures	0.994592174	1.062774939
GO:0061077	chaperone-mediated protein folding	0.438579544	1.062789171
GO:0035270	endocrine system development	0.437948888	1.062824515
ENSG00000105048	TNNT1 subnetwork	0.994564625	1.062835136
GO:0016053	organic acid biosynthetic process	0.99450987	1.062843493
ENSG00000108312	UBTF subnetwork	0.438811788	1.062848475
MP:0001927	abnormal estrous cycle	0.438200502	1.062892101
GO:0045495	pole plasm	0.438395454	1.062902167
ENSG00000049759	NEDD4L subnetwork	0.438552242	1.062906137
GO:0046394	carboxylic acid biosynthetic process	0.99450987	1.062922222
ENSG00000167083	GNGT2 subnetwork	0.99449156	1.062986147
ENSG00000115170	ACVR1 subnetwork	0.438157815	1.063000986
ENSG00000163879	DNALI1 subnetwork	0.438526892	1.063055966
ENSG00000139970	RTN1 subnetwork	0.994490248	1.063061194
GO:0060293	germ plasm	0.438395454	1.06307667
GO:0008514	organic anion transmembrane transporter activity	0.994483176	1.063128843
GO:0005310	dicarboxylic acid transmembrane transporter activity	0.994476707	1.063192798
ENSG00000103187	COTL1 subnetwork	0.994458947	1.063245647
GO:0043186	P granule	0.438395454	1.063251232
ENSG00000164758	MED30 subnetwork	0.438991367	1.063297262
MP:0004402	decreased cochlear outer hair cell number	0.994443085	1.063313324
ENSG00000176658	MYO1D subnetwork	0.439368511	1.063325143
ENSG00000168961	LGALS9 subnetwork	0.994426023	1.063358779
GO:0002793	positive regulation of peptide secretion	0.994361734	1.063359769

ENSG00000131153	GINS2 subnetwork	0.439252712	1.063395052
GO:0004806	triglyceride lipase activity	0.994344948	1.063405233
GO:0006873	cellular ion homeostasis	0.994314117	1.063439585
MP:0000223	decreased monocyte cell number	0.439159297	1.06345681
ENSG00000066044	ELAVL1 subnetwork	0.439344778	1.063466579
REACTOME_CYCLIN_AB1_ASSOCIATED_EVENTS_DURING	REACTOME_CYCLIN_AB1_ASSOCIATED_EVENTS_DURING	0.994281674	1.063499889
ENSG00000106799	TGFBR1 subnetwork	0.439600251	1.063500901
ENSG00000197892	KIF13B subnetwork	0.439122908	1.063532787
MP:0005156	bradykinesia	0.439229369	1.063536545
GO:0048598	embryonic morphogenesis	0.99427038	1.063560202
GO:0004722	protein serine/threonine phosphatase activity	0.439715288	1.06358055
ENSG00000053900	ANAPC4 subnetwork	0.994251425	1.063613109
GO:0043467	regulation of generation of precursor metabolites and energy	0.440182874	1.06361629
MP:0002978	absent otoliths	0.439558397	1.063625942
MP:0001731	abnormal postnatal growth	0.440362355	1.063628188
MP:0005590	increased vasodilation	0.994235091	1.063669732
ENSG00000143379	SETDB1 subnetwork	0.994223878	1.063737486
GO:0005884	actin filament	0.44033455	1.063753066
MP:0005192	increased motor neuron number	0.994174785	1.063753337
GO:0032330	regulation of chondrocyte differentiation	0.440181973	1.063790283
GO:0032024	positive regulation of insulin secretion	0.994173652	1.063828525
ENSG00000136238	RAC1 subnetwork	0.440135992	1.063898887
ENSG00000162664	ZNF326 subnetwork	0.994166286	1.063900015
MP:0005104	abnormal tarsal bone morphology	0.994153248	1.06395668
MP:0000753	paralysis	0.994136063	1.064005935
GO:0032462	regulation of protein homooligomerization	0.440828286	1.064019608
MP:0009703	decreased birth body size	0.440595292	1.064026484
GO:0043394	proteoglycan binding	0.994117538	1.064047778
ENSG00000172053	QARS subnetwork	0.44011483	1.064048437
MP:0003068	enlarged kidney	0.440042362	1.064091653
MP:0000947	convulsive seizures	0.994090471	1.064093337
ENSG00000103343	ZNF174 subnetwork	0.440776198	1.064103612
ENSG00000184185	KCNJ12 subnetwork	0.440717611	1.064138607
GO:0042136	neurotransmitter biosynthetic process	0.994084251	1.064168584
ENSG00000101608	MYL12A subnetwork	0.440020222	1.064208545
GO:0031398	positive regulation of protein ubiquitination	0.994054327	1.064210448
GO:0006098	pentose-phosphate shunt	0.994044301	1.064270872
MP:0009758	impaired behavioral response to cocaine	0.994039484	1.064346148
GO:0005581	collagen	0.993999917	1.064376902
GO:0071377	cellular response to glucagon stimulus	0.99398628	1.064452197
GO:0015295	solute:hydrogen symporter activity	0.993965643	1.064508945
GO:0005248	voltage-gated sodium channel activity	0.993947924	1.06456199
GO:0000062	fatty-acyl-CoA binding	0.993922338	1.06461133
ENSG00000171208	NETO2 subnetwork	0.441173709	1.064643907
GO:0030433	ER-associated protein catabolic process	0.99392113	1.064686665
ENSG00000185479	KRT6B subnetwork	0.441246678	1.064706843
REACTOME_CRMP5_IN_SEMA3A_SIGNALING	REACTOME_CRMP5_IN_SEMA3A_SIGNALING	0.993914923	1.064758298
ENSG00000141564	RPTOR subnetwork	0.441142302	1.06476066
MP:0000026	abnormal inner ear morphology	0.993909114	1.064837368
GO:0016782	transferase activity, transferring sulfur-containing group	0.993892232	1.064897883
GO:0032897	negative regulation of viral transcription	0.442804509	1.064905568
ENSG00000177733	HNRNPA0 subnetwork	0.442273094	1.064922575
GO:0080008	CUL4 RING ubiquitin ligase complex	0.442436299	1.06492586
MP:0002972	abnormal cardiac muscle contractility	0.442549766	1.064956012

GO:0043161	proteasomal ubiquitin-dependent protein catabolic proc	0.993878131	1.064958408
ENSG00000104964	AES subnetwork	0.442132014	1.064976357
MP:0002397	abnormal bone marrow morphology	0.442778313	1.064981273
ENSG00000215754	ENSG00000215754 subnetwork	0.442377594	1.064985332
ENSG00000113558	SKP1 subnetwork	0.442719986	1.064991857
ENSG00000181029	TRAPPC5 subnetwork	0.44262563	1.064994299
GO:0005089	Rho guanyl-nucleotide exchange factor activity	0.442037773	1.065003262
ENSG00000077312	SNRPA subnetwork	0.441487642	1.065022861
GO:0060134	prepulse inhibition	0.993873108	1.065033796
ENSG00000099725	ENSG00000099725 subnetwork	0.442016513	1.065087261
ENSG00000167751	KLK2 subnetwork	0.442265822	1.065088034
GO:0014075	response to amine stimulus	0.993860098	1.06509434
MP:0003755	abnormal palate morphology	0.993759287	1.065130015
ENSG00000184357	HIST1H1B subnetwork	0.993833246	1.06513632
ENSG00000145147	SLIT2 subnetwork	0.993744331	1.065186864
ENSG00000102981	PARD6A subnetwork	0.442005613	1.065261011
MP:0001077	abnormal spinal nerve morphology	0.993741443	1.065262298
GO:0060736	prostate gland growth	0.443393229	1.065292012
ENSG00000006747	SCIN subnetwork	0.441655647	1.065297959
GO:0007168	receptor guanylyl cyclase signaling pathway	0.993707747	1.065308018
ENSG00000140451	PIF1 subnetwork	0.443167451	1.065332031
ENSG00000108592	FTSJ3 subnetwork	0.443500156	1.065346454
GO:0051208	sequestering of calcium ion	0.441752718	1.065368919
ENSG00000103479	RBL2 subnetwork	0.993703737	1.065383472
ENSG00000115750	TAF1B subnetwork	0.441986219	1.065394028
ENSG00000128951	DUT subnetwork	0.443364942	1.065408396
ENSG00000125970	RALY subnetwork	0.443146066	1.065432199
MP:0003111	abnormal cell nucleus morphology	0.443327871	1.065435313
ENSG00000112305	SMAP1 subnetwork	0.441942398	1.065437337
GO:0001518	voltage-gated sodium channel complex	0.993693152	1.065447789
GO:0032200	telomere organization	0.441871136	1.065448017
GO:0015103	inorganic anion transmembrane transporter activity	0.993670276	1.065493534
ENSG00000135862	LAMC1 subnetwork	0.443806872	1.065499025
ENSG00000204319	ENSG00000204319 subnetwork	0.444043898	1.065556458
ENSG00000117360	PRPF3 subnetwork	0.443696721	1.065560976
MP:0002741	small olfactory bulb	0.993667475	1.065572735
GO:0042640	anagen	0.993645813	1.065607345
GO:0048477	oogenesis	0.443942497	1.065642776
GO:0015297	antiporter activity	0.993594499	1.065649394
ENSG00000134014	ELP3 subnetwork	0.443804406	1.065672248
ENSG00000078747	ITCH subnetwork	0.443688042	1.065709872
ENSG00000138495	COX17 subnetwork	0.444019372	1.065713357
ENSG00000151332	MBIP subnetwork	0.993590398	1.065724907
REACTOME_POTASSIUM_CHAN	REACTOME_POTASSIUM_CHANNELS	0.993569013	1.06578556
ENSG00000130294	KIF1A subnetwork	0.993567012	1.065864813
GO:0030823	regulation of cGMP metabolic process	0.993533143	1.065903175
ENSG00000125166	GOT2 subnetwork	0.993526513	1.06597873
ENSG00000037749	MFAP3 subnetwork	0.444271255	1.06600065
ENSG00000087460	GNAS subnetwork	0.993524043	1.066054295
MP:0001970	abnormal pain threshold	0.993506616	1.066118715
ENSG00000171346	KRT15 subnetwork	0.993505079	1.066198021
MP:0001650	abnormal seizure response to electrical stimulation	0.993498674	1.066266181
GO:0010658	striated muscle cell apoptotic process	0.993480086	1.06632691
MP:0004608	abnormal cervical axis morphology	0.99344779	1.066380208

GO:0009123	nucleoside monophosphate metabolic process	0.99340161	1.066396309
ENSG00000183155	RAB1F subnetwork	0.993371579	1.066457062
GO:0030826	regulation of cGMP biosynthetic process	0.993356027	1.066525266
MP:0002733	abnormal thermal nociception	0.993326294	1.066582316
MP:0000759	abnormal skeletal muscle morphology	0.993292793	1.066613323
ENSG00000180210	F2 subnetwork	0.444590337	1.066639597
GO:0038024	cargo receptor activity	0.444651764	1.066653134
MP:0009845	abnormal neural crest cell morphology	0.993286236	1.066685276
GO:0001885	endothelial cell development	0.993245183	1.066716296
ENSG00000170178	HOXD12 subnetwork	0.44487537	1.066769481
ENSG00000176749	CDK5R1 subnetwork	0.993234786	1.066784544
REACTOME_APOPTOTIC_EXECUTION	REACTOME_APOPTOTIC_EXECUTION__PHASE	0.44498526	1.066815452
GO:0032272	negative regulation of protein polymerization	0.993233841	1.066863971
ENSG00000183791	TCEB3C subnetwork	0.444874326	1.066934567
ENSG00000152583	SPARCL1 subnetwork	0.993219628	1.066935964
ENSG00000100321	SYNGR1 subnetwork	0.993203016	1.066996798
ENSG00000140941	MAP1LC3B subnetwork	0.993187738	1.06704647
MP:0005650	abnormal limb bud morphology	0.993174463	1.067114769
MP:0002128	abnormal blood circulation	0.445169874	1.067129179
GO:0031143	pseudopodium	0.993147527	1.067179353
ENSG00000145423	SFRP2 subnetwork	0.993120162	1.067225326
GO:0030073	insulin secretion	0.99310913	1.067289928
GO:0045922	negative regulation of fatty acid metabolic process	0.993098242	1.067365716
REACTOME_GLUCAGON:TYPE_LIGAND	REACTOME_GLUCAGON:TYPE_LIGAND_RECEPTORS	0.993082807	1.067419163
MP:0001539	decreased caudal vertebrae number	0.993075781	1.06748752
GO:0001540	beta-amyloid binding	0.99307545	1.067567064
GO:0043531	ADP binding	0.99302997	1.067575825
MP:0000150	abnormal rib morphology	0.993008812	1.067644209
MP:0002114	abnormal axial skeleton morphology	0.992988117	1.06770515
ENSG00000174903	RAB1B subnetwork	0.992950073	1.067751193
GO:0032982	myosin filament	0.992949919	1.067830786
GO:0044087	regulation of cellular component biogenesis	0.445511745	1.067832225
ENSG00000100151	PICK1 subnetwork	0.99291286	1.067861935
MP:0001944	abnormal pancreas morphology	0.992909483	1.067941549
GO:0000242	pericentriolar material	0.445664296	1.067959117
ENSG00000096467	ENSG00000096467 subnetwork	0.446046805	1.067976982
ENSG00000100503	NIN subnetwork	0.992885923	1.067998807
ENSG00000155380	SLC16A1 subnetwork	0.446190409	1.068044077
GO:0008021	synaptic vesicle	0.992865449	1.068052345
REACTOME_MEIOTIC_SYNAPSIS	REACTOME_MEIOTIC_SYNAPSIS	0.446136557	1.068063209
MP:0000528	delayed kidney development	0.992841055	1.068098434
ENSG00000206403	ABHD16A subnetwork	0.446046805	1.06815013
MP:0009114	decreased pancreatic beta cell mass	0.446443045	1.068156787
ENSG00000175895	PLEKHF2 subnetwork	0.992836101	1.068174361
MP:0002812	spherocytosis	0.445858551	1.068183293
MP:0004275	abnormal postnatal subventricular zone morphology	0.992799334	1.068194362
ENSG00000115561	CHMP3 subnetwork	0.446536374	1.068218623
GO:0070098	chemokine-mediated signaling pathway	0.992776708	1.068255389
MP:0003049	abnormal lumbar vertebrae morphology	0.992749905	1.068301507
MP:0003993	abnormal ventral spinal root morphology	0.44643277	1.068313624
ENSG00000100519	PSMC6 subnetwork	0.446347397	1.068316591
ENSG00000204427	ABHD16A subnetwork	0.446046805	1.068323334
GO:0004890	GABA-A receptor activity	0.992715943	1.068340172
ENSG00000164109	MAD2L1 subnetwork	0.992715564	1.068419875

GO:0006636	unsaturated fatty acid biosynthetic process	0.446021675	1.068439831
REACTOME_PROLONGED_ERK_ACTIVATION_EVENTS	REACTOME_PROLONGED_ERK_ACTIVATION_EVENTS	0.446947764	1.068454693
ENSG00000112773	FAM46A subnetwork	0.446855599	1.068460667
GO:0001882	nucleoside binding	0.446738765	1.068482837
MP:0005631	decreased lung weight	0.446920296	1.068490047
GO:0043062	extracellular structure organization	0.992712469	1.06849959
GO:0030198	extracellular matrix organization	0.992712469	1.068579317
ENSG00000101333	PLCB4 subnetwork	0.446841086	1.068617452
MP:0003722	absent ureter	0.992697323	1.068644131
GO:0072511	divalent inorganic cation transport	0.447238621	1.068667098
GO:0045749	negative regulation of S phase of mitotic cell cycle	0.992688456	1.068712687
ENSG00000042753	AP2S1 subnetwork	0.44718404	1.068718654
ENSG00000183049	CAMK1D subnetwork	0.992666869	1.068770057
GO:0015850	organic alcohol transport	0.99265502	1.068842365
GO:0002504	antigen processing and presentation of peptide or polys:	0.447699654	1.068873262
MP:0008943	increased sensitivity to induced cell death	0.447774025	1.068910619
GO:0006941	striated muscle contraction	0.992649011	1.06891095
ENSG00000153107	ANAPC1 subnetwork	0.99264383	1.068987011
MP:0003207	decreased cellular sensitivity to gamma-irradiation	0.447900636	1.069004525
GO:0030225	macrophage differentiation	0.447522667	1.06902798
REACTOME_ACTIVATION_OF_DNA_FRAGMENTATION_F	REACTOME_ACTIVATION_OF_DNA_FRAGMENTATION_F	0.447678886	1.069029911
MP:0002237	abnormal nasal cavity morphology	0.992614732	1.069051885
ENSG00000162511	LAPTM5 subnetwork	0.992574465	1.069086905
ENSG00000163539	CLASP2 subnetwork	0.992568321	1.069166729
GO:0000152	nuclear ubiquitin ligase complex	0.992499993	1.069190562
ENSG00000100413	POLR3H subnetwork	0.448484866	1.069192897
REACTOME_APOPTOSIS_INDUCED_DNA_FRAGMENTATION	REACTOME_APOPTOSIS_INDUCED_DNA_FRAGMENTATION	0.447678886	1.069202781
MP:0000968	abnormal sensory neuron innervation pattern	0.992479065	1.069248002
MP:0002591	decreased mean corpuscular volume	0.448446237	1.069284792
ENSG00000128266	GNAZ subnetwork	0.992463256	1.069320388
GO:0060249	anatomical structure homeostasis	0.448400859	1.069376716
ENSG00000135506	OS9 subnetwork	0.448338683	1.069395995
GO:0002011	morphogenesis of an epithelial sheet	0.992460358	1.069400254
GO:0043403	skeletal muscle tissue regeneration	0.992453921	1.069472662
ENSG00000196150	ZNF250 subnetwork	0.992441952	1.069541346
ENSG00000180104	EXOC3 subnetwork	0.448334331	1.069560653
REACTOME_INHIBITION_OF_REPLICATION_INITIATION_I	REACTOME_INHIBITION_OF_REPLICATION_INITIATION_I	0.448220151	1.069607368
ENSG00000183048	SLC25A10 subnetwork	0.992440249	1.069621246
REACTOME_INTERACTIONS_OF_REV_WITH_HOST_CELL	REACTOME_INTERACTIONS_OF_REV_WITH_HOST_CELL	0.44830379	1.069636511
GO:0045104	intermediate filament cytoskeleton organization	0.992391503	1.069652596
MP:0000585	kinked tail	0.992368655	1.069717573
GO:0019359	nicotinamide nucleotide biosynthetic process	0.992365597	1.069793768
ENSG00000129993	CBFA2T3 subnetwork	0.992330457	1.069828875
GO:0005865	striated muscle thin filament	0.99232527	1.069901353
ENSG00000137267	TUBB2A subnetwork	0.992299399	1.069936472
GO:0006835	dicarboxylic acid transport	0.992298788	1.070016444
ENSG00000008311	AASS subnetwork	0.992288673	1.070085215
GO:0021766	hippocampus development	0.992278361	1.070157733
GO:0016460	myosin II complex	0.99226456	1.070226525
KEGG_DRUG_METABOLISM_CYTOCHROME_P450	KEGG_DRUG_METABOLISM_CYTOCHROME_P450	0.449097893	1.070243666
MP:0001899	absent long term depression	0.992238422	1.070257944
GO:0017158	regulation of calcium ion-dependent exocytosis	0.99220974	1.070300583
ENSG00000048540	LMO3 subnetwork	0.992200422	1.07037314
GO:0030175	filopodium	0.449066295	1.070376049

GO:0034605	cellular response to heat	0.992187418	1.070438229
GO:0016055	Wnt receptor signaling pathway	0.992180434	1.070507068
GO:0030072	peptide hormone secretion	0.992167691	1.070557218
MP:0002948	abnormal neuron specification	0.992165905	1.070637295
MP:0001433	polyphagia	0.992145207	1.070702424
GO:0071941	nitrogen cycle metabolic process	0.992111955	1.07075634
ENSG00000160199	PKNOX1 subnetwork	0.449395227	1.0708293
GO:0055081	anion homeostasis	0.992105131	1.070836451
MP:0000039	abnormal otic capsule morphology	0.992103171	1.070916573
ENSG00000120057	SFRP5 subnetwork	0.992072142	1.070989225
ENSG00000106483	SFRP4 subnetwork	0.992072142	1.071069371
ENSG00000104332	SFRP1 subnetwork	0.992072142	1.071149529
GO:0000187	activation of MAPK activity	0.449822028	1.071154466
GO:0070848	response to growth factor stimulus	0.449603684	1.071196967
MP:0004462	small basisphenoid bone	0.44976565	1.07121432
ENSG00000176697	BDNF subnetwork	0.992065555	1.071222214
REACTOME_CONVERSION_FROM	REACTOME_CONVERSION_FROM_APCCDC20_TO_APC	0.991997412	1.071227545
ENSG00000101146	RAE1 subnetwork	0.450084761	1.071273167
GO:0001706	endoderm formation	0.991979262	1.071292761
GO:0015872	dopamine transport	0.991915296	1.071328043
ENSG00000170876	TMEM43 subnetwork	0.991867849	1.071355843
ENSG00000169641	LUZP1 subnetwork	0.450065967	1.071373308
ENSG00000171557	FGG subnetwork	0.449764707	1.071387097
ENSG00000120088	CRHR1 subnetwork	0.991858921	1.071428571
GO:0005876	spindle microtubule	0.450249927	1.07148727
ENSG00000135900	MRPL44 subnetwork	0.450044395	1.071489602
ENSG00000163814	CDCP1 subnetwork	0.991845745	1.07150131
ENSG00000213416	KRTAP4-12 subnetwork	0.991826874	1.071547851
ENSG00000174744	BRMS1 subnetwork	0.450348747	1.071564363
GO:0030111	regulation of Wnt receptor signaling pathway	0.991737528	1.071581037
ENSG00000212908	ENSG00000212908 subnetwork	0.991826874	1.071628099
MP:0010519	atrioventricular block	0.991722987	1.071638829
ENSG00000164080	RAD54L2 subnetwork	0.991689098	1.071674157
MP:0004994	abnormal brain wave pattern	0.991630389	1.071683272
MP:0000752	dystrophic muscle	0.991621549	1.071759814
MP:0000030	abnormal tympanic ring morphology	0.991598407	1.071825129
GO:0071702	organic substance transport	0.991595901	1.071901693
GO:0038032	termination of G-protein coupled receptor signaling path	0.991573554	1.071937055
ENSG00000068793	CYFIP1 subnetwork	0.991487224	1.071977816
REACTOME_G1S:SPECIFIC_TRANS	REACTOME_G1S:SPECIFIC_TRANSCRIPTION	0.991556812	1.072002398
MP:0003817	abnormal pituitary diverticulum morphology	0.991463395	1.072039424
GO:0005179	hormone activity	0.991454331	1.072097294
MP:0002551	abnormal blood coagulation	0.450652314	1.072113062
ENSG00000175602	CCDC85B subnetwork	0.991372418	1.07214184
GO:0007411	axon guidance	0.991450017	1.072177661
GO:0042755	eating behavior	0.991352518	1.072207227
GO:0043551	regulation of phosphatidylinositol 3-kinase activity	0.45064373	1.072229381
GO:0010002	cardioblast differentiation	0.991350272	1.072283872
GO:0060070	canonical Wnt receptor signaling pathway	0.991319214	1.072326785
GO:0006140	regulation of nucleotide metabolic process	0.991309792	1.07240345
ENSG00000089818	NECAP1 subnetwork	0.450845918	1.072447665
GO:0072529	pyrimidine-containing compound catabolic process	0.991300948	1.072453877
ENSG00000181789	COPG subnetwork	0.450923155	1.072500403
MP:0002090	abnormal vision	0.991294984	1.072526813

ENSG00000105894	PTN subnetwork	0.99127079	1.072581008
GO:0014003	oligodendrocyte development	0.991249202	1.072631461
GO:0050890	cognition	0.991247208	1.072708177
ENSG00000135480	KRT7 subnetwork	0.991242674	1.072784905
GO:0042220	response to cocaine	0.991220425	1.072842887
GO:0014073	response to tropane	0.991220425	1.072923389
GO:0003203	endocardial cushion morphogenesis	0.991203523	1.072996398
MP:0006379	abnormal spermatocyte morphology	0.451243993	1.073060206
ENSG00000105514	RAB3D subnetwork	0.991200787	1.073073171
GO:0035108	limb morphogenesis	0.991182775	1.073089913
GO:0035107	appendage morphogenesis	0.991182775	1.073170457
ENSG00000094880	CDC23 subnetwork	0.991172352	1.073243507
KEGG_CARDIAC_MUSCLE_CONTR	KEGG_CARDIAC_MUSCLE_CONTRACTION	0.991169902	1.073320321
ENSG00000186469	GNG2 subnetwork	0.991127518	1.073363363
GO:0034381	plasma lipoprotein particle clearance	0.991119177	1.073440198
GO:0007020	microtubule nucleation	0.99111305	1.07351329
MP:0000536	hydroureter	0.991066611	1.073541338
GO:0010769	regulation of cell morphogenesis involved in differentiation	0.991051531	1.073606939
ENSG00000160299	PCNT subnetwork	0.991050968	1.07368757
ENSG00000102893	PHKB subnetwork	0.991032386	1.073753192
GO:0050879	multicellular organismal movement	0.99101339	1.073822579
GO:0034312	diol biosynthetic process	0.451999459	1.07389836
GO:0050881	musculoskeletal movement	0.99101339	1.073903245
ENSG00000092054	MYH7 subnetwork	0.990991751	1.073953873
GO:0010543	regulation of platelet activation	0.990980506	1.074027047
ENSG00000184575	XPOT subnetwork	0.451728327	1.074030259
GO:0042423	catecholamine biosynthetic process	0.451999459	1.074071095
MP:0003938	abnormal ear development	0.990956827	1.074077692
MP:0000897	abnormal midbrain morphology	0.990941398	1.07412083
ENSG00000154978	VOPP1 subnetwork	0.990904845	1.074156459
ENSG00000120907	ADRA1A subnetwork	0.990902147	1.074233429
GO:0009713	catechol-containing compound biosynthetic process	0.451999459	1.074243887
GO:0042439	ethanolamine-containing compound metabolic process	0.99088594	1.074302894
GO:0021952	central nervous system projection neuron axonogenesis	0.990844807	1.07432727
ENSG00000185615	PDIA2 subnetwork	0.451983206	1.074368463
GO:0060123	regulation of growth hormone secretion	0.99083797	1.074400511
GO:0034483	heparan sulfate sulfotransferase activity	0.990819391	1.074462487
GO:0070252	actin-mediated cell contraction	0.990788748	1.07449064
GO:0016755	transferase activity, transferring amino-acyl groups	0.451968744	1.074509173
GO:0042166	acetylcholine binding	0.990774289	1.074552632
ENSG00000101160	CTSZ subnetwork	0.452335259	1.074593986
MP:0003311	aminoaciduria	0.990766823	1.074633431
GO:0019098	reproductive behavior	0.990728193	1.074676643
ENSG00000101150	TPD52L2 subnetwork	0.990688832	1.07470106
MP:0001092	abnormal trigeminal ganglion morphology	0.990674119	1.074770608
MP:0006358	absent pinna reflex	0.990670511	1.074851448
MP:0004113	abnormal aortic arch morphology	0.990668705	1.0749323
GO:0090276	regulation of peptide hormone secretion	0.990668072	1.075013165
GO:0051646	mitochondrion localization	0.990658569	1.075086518
GO:0005980	glycogen catabolic process	0.990621886	1.075129787
MP:0002639	micrognathia	0.990621193	1.075210685
GO:0010976	positive regulation of neuron projection development	0.990605187	1.075280307
ENSG00000108823	SGCA subnetwork	0.990563444	1.075316075
GO:0019362	pyridine nucleotide metabolic process	0.990550511	1.075385715

REACTOME_INSULIN_RECEPTOR_	REACTOME_INSULIN_RECEPTOR_SIGNALLING_CASCADE	0.452735874	1.075409968
GO:0072524	pyridine-containing compound metabolic process	0.990550511	1.075466657
GO:0060675	ureteric bud morphogenesis	0.990547388	1.075540083
GO:0061001	regulation of dendritic spine morphogenesis	0.990543983	1.075609756
GO:0046717	acid secretion	0.990523017	1.075638034
GO:0048306	calcium-dependent protein binding	0.990475413	1.07567008
GO:0090277	positive regulation of peptide hormone secretion	0.990454062	1.075713425
GO:0033044	regulation of chromosome organization	0.453499409	1.075742495
REACTOME_FACTORS_INVOLVED_	REACTOME_FACTORS_INVOLVED_IN_MEGAKARYOCYTE_	0.45293641	1.075759524
GO:0001657	ureteric bud development	0.990449576	1.075790663
ENSG00000113456	RAD1 subnetwork	0.453467747	1.075859024
MP:0003633	abnormal nervous system physiology	0.990444929	1.075871677
ENSG00000136944	LMX1B subnetwork	0.990428804	1.075941407
ENSG00000001626	CFTR subnetwork	0.453404027	1.075951502
REACTOME_FORMATION_OF_INC	REACTOME_FORMATION_OF_INCISION_COMPLEX_IN_C	0.990407888	1.076007381
GO:0051457	maintenance of protein location in nucleus	0.453361092	1.076011886
ENSG00000136110	LECT1 subnetwork	0.454035604	1.076026628
REACTOME_DUAL_INCISION_REA	REACTOME_DUAL_INCISION_REACTION_IN_GG:NER	0.990407888	1.07608843
GO:0030137	COPI-coated vesicle	0.453747031	1.076091493
ENSG00000148053	NTRK2 subnetwork	0.45332801	1.076104418
ENSG00000151748	SAV1 subnetwork	0.45318486	1.076104773
MP:0001852	conjunctivitis	0.454025688	1.076143109
ENSG00000123131	PRDX4 subnetwork	0.453919783	1.076147304
REACTOME_REGULATION_OF_AP	REACTOME_REGULATION_OF_APOPTOSIS	0.990399221	1.076161959
GO:0006725	cellular aromatic compound metabolic process	0.990324431	1.07617523
GO:0044427	chromosomal part	0.453889041	1.07622372
GO:0016798	hydrolase activity, acting on glycosyl bonds	0.990312193	1.076233708
GO:0004745	retinol dehydrogenase activity	0.453321881	1.07626928
MP:0001728	failure of embryo implantation	0.45419818	1.076271051
ENSG00000112936	C7 subnetwork	0.453181616	1.076277724
GO:0060716	labyrinthine layer blood vessel development	0.990296273	1.076295961
GO:0002791	regulation of peptide secretion	0.990282828	1.076373295
GO:0070555	response to interleukin-1	0.454709287	1.076377764
MP:0000454	abnormal jaw morphology	0.990114383	1.076390564
ENSG00000047579	DTNBP1 subnetwork	0.454409167	1.076406926
GO:0033555	multicellular organismal response to stress	0.990213477	1.076445098
GO:0060173	limb development	0.990095675	1.076449084
GO:0090087	regulation of peptide transport	0.990282828	1.076454408
GO:0006816	calcium ion transport	0.45435275	1.076467287
GO:0031424	keratinization	0.454688738	1.076478129
GO:0060039	pericardium development	0.454894867	1.07648943
ENSG00000141956	PRDM15 subnetwork	0.454558981	1.076494631
ENSG00000168412	MTNR1A subnetwork	0.454638948	1.076522436
GO:0048736	appendage development	0.990095675	1.076530228
ENSG00000008277	ADAM22 subnetwork	0.990079891	1.076592537
MP:0008544	impaired olfaction	0.99003048	1.07661339
ENSG00000104824	HNRNPL subnetwork	0.45488264	1.076613807
ENSG00000107819	SFXN3 subnetwork	0.989991767	1.076626706
ENSG00000104549	SQLE subnetwork	0.454550388	1.076667201
GO:0042436	indole-containing compound catabolic process	0.98998605	1.076707887
GO:0006569	tryptophan catabolic process	0.98998605	1.076789081
GO:0046218	indolalkylamine catabolic process	0.98998605	1.076870287
ENSG00000135052	GOLM1 subnetwork	0.989972163	1.076947734
GO:0007200	phospholipase C-activating G-protein coupled receptor s	0.989950868	1.077006336

GO:0051784	negative regulation of nuclear division	0.989935814	1.077061175
ENSG00000137203	TFAP2A subnetwork	0.455197285	1.077117694
GO:0045839	negative regulation of mitosis	0.989935814	1.077142426
ENSG00000164093	PITX2 subnetwork	0.989898492	1.077178423
MP:0001968	abnormal touch/ nociception	0.989880985	1.077244605
GO:0071845	cellular component disassembly at cellular level	0.456047076	1.077290168
GO:0003416	endochondral bone growth	0.98987978	1.077325888
GO:0044243	multicellular organismal catabolic process	0.989846393	1.077354362
MP:0003355	decreased ovulation rate	0.456007698	1.077430445
GO:0002790	peptide secretion	0.989841004	1.077431892
ENSG00000109272	PF4V1 subnetwork	0.455696306	1.077468395
ENSG00000073578	SDHA subnetwork	0.455824928	1.077491601
GO:0022603	regulation of anatomical structure morphogenesis	0.989814054	1.07749434
ENSG00000151576	QTRTD1 subnetwork	0.455779177	1.077528
GO:0035137	hindlimb morphogenesis	0.98977348	1.077534154
MP:0001134	absent corpus luteum	0.455486363	1.077537624
GO:0034706	sodium channel complex	0.989736545	1.077570199
ENSG00000107854	TNKS2 subnetwork	0.456277442	1.077581522
GO:0005671	Ada2/Gcn5/Ada3 transcription activator complex	0.456005674	1.077602751
ENSG00000034713	GABARAPL2 subnetwork	0.455615233	1.077637266
ENSG00000205813	ENSG00000205813 subnetwork	0.455696306	1.077640845
MP:0005274	abnormal viscerocranium morphology	0.989730372	1.077643995
ENSG00000115306	SPTBN1 subnetwork	0.455982766	1.077703135
REACTOME_STRIATED_MUSCLE_CONTRACTION	REACTOME_STRIATED_MUSCLE_CONTRACTION	0.98972528	1.077717802
GO:0034330	cell junction organization	0.989715157	1.077787844
GO:0009952	anterior/posterior pattern specification	0.989701893	1.077857898
ENSG00000134809	TIMM10 subnetwork	0.989701151	1.077939289
GO:0008236	serine-type peptidase activity	0.456591925	1.078004155
GO:0019932	second-messenger-mediated signaling	0.989697083	1.078020692
GO:0023019	signal transduction involved in regulation of gene expression	0.989652835	1.078037913
GO:0032781	positive regulation of ATPase activity	0.989625288	1.078066465
GO:0005813	centrosome	0.456562588	1.078112514
REACTOME_G_PROTEIN_GATED_POTASSIUM_CHANNEL	REACTOME_G_PROTEIN_GATED_POTASSIUM_CHANNEL	0.989609557	1.078132789
ENSG00000156711	MAPK13 subnetwork	0.456730426	1.078135485
REACTOME_INHIBITION_OF_VOLTAGE_GATED_Ca2_CHANNEL	REACTOME_INHIBITION_OF_VOLTAGE_GATED_Ca2_CHANNEL	0.989609557	1.078214232
ENSG00000126522	ASL subnetwork	0.457013545	1.078270244
MP:0002062	abnormal associative learning	0.989535162	1.078286491
REACTOME_ACTIVATION_OF_G_PROTEIN_GATED_POTASSIUM_CHANNEL	REACTOME_ACTIVATION_OF_G_PROTEIN_GATED_POTASSIUM_CHANNEL	0.989609557	1.078295686
MP:0003232	abnormal forebrain development	0.989514634	1.078326407
GO:0005643	nuclear pore	0.456941576	1.078354633
MP:0002574	increased vertical activity	0.989506681	1.078400332
ENSG00000121152	NCAPH subnetwork	0.989482534	1.078455377
GO:0035113	embryonic appendage morphogenesis	0.989456877	1.078510429
MP:0002825	abnormal notochord morphology	0.989382484	1.078548753
GO:0030326	embryonic limb morphogenesis	0.989456877	1.078591943
GO:0004835	tubulin-tyrosine ligase activity	0.989380817	1.078618943
KEGG_ARRHYTHMOGENIC_RIGHT_VENTRICULAR_CARDIAC_SEPTUM_MORPHOGENESIS	KEGG_ARRHYTHMOGENIC_RIGHT_VENTRICULAR_CARDIAC_SEPTUM_MORPHOGENESIS	0.989364702	1.078658905
MP:0000077	abnormal interparietal bone morphology	0.989288727	1.078708604
ENSG00000104863	LIN7B subnetwork	0.989342984	1.078713994
GO:0045502	dynein binding	0.989285835	1.078778828
ENSG00000163637	PRICKLE2 subnetwork	0.98928441	1.078860405
GO:0008360	regulation of cell shape	0.989274333	1.078930651
GO:0060411	cardiac septum morphogenesis	0.989270821	1.079008471
MP:0000792	abnormal cortical marginal zone morphology	0.989205967	1.079025792

REACTOME_CELL_JUNCTION_ORG	REACTOME_CELL_JUNCTION_ORGANIZATION	0.989199369	1.079103631
GO:0031333	negative regulation of protein complex assembly	0.989175137	1.079143657
GO:0030675	Rac GTPase activator activity	0.4576453	1.07915403
ENSG00000110721	CHKA subnetwork	0.457738777	1.079189275
GO:0006699	bile acid biosynthetic process	0.989172237	1.079225299
ENSG00000150787	PTS subnetwork	0.457624814	1.07925447
ENSG00000164611	PTTG1 subnetwork	0.989144368	1.079272906
GO:0034614	cellular response to reactive oxygen species	0.457468347	1.079279783
MP:0002843	decreased systemic arterial blood pressure	0.457576125	1.079315025
GO:0030551	cyclic nucleotide binding	0.989143484	1.07935457
ENSG00000105607	GCDH subnetwork	0.9891246	1.079356792
GO:0060045	positive regulation of cardiac muscle cell proliferation	0.989101204	1.079419555
GO:0007567	parturition	0.989097855	1.079501249
MP:0001406	abnormal gait	0.989077082	1.079567817
ENSG00000204218	ENSG00000204218 subnetwork	0.98906132	1.07963818
GO:0043596	nuclear replication fork	0.458001407	1.079671294
MP:0000255	vasculature congestion	0.458061045	1.079674537
GO:0006353	transcription termination, DNA-dependent	0.989054914	1.079708554
ENSG00000105972	ENSG00000105972 subnetwork	0.989032859	1.079782724
GO:0070509	calcium ion import	0.989021057	1.079849334
ENSG00000087274	ADD1 subnetwork	0.988997436	1.07991974
ENSG00000104835	FBXO17 subnetwork	0.988988153	1.079993942
MP:0000819	abnormal olfactory bulb morphology	0.98897807	1.080071942
MP:0008531	increased chemical nociceptive threshold	0.988962338	1.080131021
GO:0048705	skeletal system morphogenesis	0.988961856	1.08021283
GO:0032526	response to retinoic acid	0.988842039	1.080259071
GO:0015300	solute:solute antiporter activity	0.988960251	1.080290865
ENSG00000138039	LHCGR subnetwork	0.988819745	1.080299242
GO:0009074	aromatic amino acid family catabolic process	0.988792376	1.080350784
GO:0005916	fascia adherens	0.988773099	1.080413699
ENSG00000165156	ZHX1 subnetwork	0.458477886	1.080443452
MP:0004542	impaired acrosome reaction	0.988753729	1.080480412
GO:0045665	negative regulation of neuron differentiation	0.98875024	1.080558503
GO:0048853	forebrain morphogenesis	0.988737648	1.080617658
REACTOME_PYRIMIDINE_METAB	REACTOME_PYRIMIDINE_METABOLISM	0.988730694	1.080688192
GO:0003007	heart morphogenesis	0.988668868	1.080698097
ENSG00000110318	KIAA1377 subnetwork	0.988661352	1.080757277
GO:0043586	tongue development	0.98850679	1.080794602
ENSG00000004975	DVL2 subnetwork	0.98864816	1.080805094
GO:0048703	embryonic viscerocranium morphogenesis	0.988610745	1.080826384
GO:0055003	cardiac myofibril assembly	0.988472738	1.080853806
GO:0008272	sulfate transport	0.988432266	1.080886479
GO:0043462	regulation of ATPase activity	0.988399512	1.080930532
GO:0060914	heart formation	0.988385748	1.081001138
GO:0015851	nucleobase transport	0.988383385	1.081083131
GO:0070936	protein K48-linked ubiquitination	0.458777816	1.081092504
MP:0005176	eyelids fail to open	0.988378389	1.081161344
GO:0004407	histone deacetylase activity	0.988373464	1.081243362
GO:0033558	protein deacetylase activity	0.988373464	1.081325393
GO:0032314	regulation of Rac GTPase activity	0.988363301	1.081399848
MP:0003054	spina bifida	0.988294032	1.081406025
GO:0060343	trabecula formation	0.988288559	1.081484292
ENSG00000131095	GFAP subnetwork	0.988258872	1.081539804
ENSG00000137726	FXYD6 subnetwork	0.988250083	1.081610504

ENSG00000075651	PLD1 subnetwork	0.461321296	1.081635729
ENSG00000061676	NCKAP1 subnetwork	0.988246243	1.081688805
MP:0008411	decreased cellular sensitivity to ultraviolet irradiation	0.461290738	1.081735957
GO:0031400	negative regulation of protein modification process	0.988209694	1.081736754
ENSG00000182934	SRPR subnetwork	0.988171025	1.081765733
ENSG00000198216	CACNA1E subnetwork	0.461746632	1.081777108
MP:0009642	abnormal blood homeostasis	0.463031969	1.081821056
ENSG00000168827	GFM1 subnetwork	0.461700842	1.081829713
GO:0060216	definitive hemopoiesis	0.463208786	1.081842604
MP:0004491	abnormal orientation of outer hair cell stereociliary bundle	0.988170957	1.081847859
ENSG00000139269	INHBE subnetwork	0.463154861	1.081879248
MP:0000125	absent incisors	0.461576419	1.081887391
ENSG00000197249	SERPINA1 subnetwork	0.98814874	1.081888239
ENSG00000150527	CTAGE5 subnetwork	0.46128566	1.081891763
MP:0001289	persistence of hyaloid vascular system	0.463402283	1.081911532
ENSG00000131183	SLC34A1 subnetwork	0.4629912	1.081913043
GO:0071900	regulation of protein serine/threonine kinase activity	0.463484403	1.08191439
GO:0030552	cAMP binding	0.988118268	1.081921033
MP:0002799	abnormal passive avoidance behavior	0.987806164	1.081969766
MP:0002674	abnormal sperm motility	0.988092545	1.081972815
ENSG00000152520	PAN3 subnetwork	0.461690389	1.081985411
ENSG00000124092	CTCFL subnetwork	0.459223339	1.081996492
ENSG00000175189	INHBC subnetwork	0.461258364	1.082007937
GO:0004553	hydrolase activity, hydrolyzing O-glycosyl compounds	0.987857601	1.082009115
ENSG0000018236	CNTN1 subnetwork	0.988064251	1.082009417
GO:0003006	developmental process involved in reproduction	0.463354813	1.082011376
MP:0008321	small adenohypophysis	0.987930484	1.082014279
GO:0042693	muscle cell fate commitment	0.987792443	1.082032971
MP:0004485	increased response of heart to induced stress	0.46156438	1.082035216
ENSG00000172531	PPP1CA subnetwork	0.462975151	1.082036686
GO:0005924	cell-substrate adherens junction	0.460162719	1.082038835
GO:0032155	cell division site part	0.461155878	1.082049857
GO:0045933	positive regulation of muscle contraction	0.460076297	1.082083731
GO:0010390	histone monoubiquitination	0.988034344	1.082087795
GO:0005123	death receptor binding	0.46122643	1.082092396
ENSG00000116741	RGS2 subnetwork	0.987777353	1.082107582
ENSG00000123338	NCKAP1L subnetwork	0.464291366	1.082137224
ENSG00000196792	STRN3 subnetwork	0.459614083	1.082143426
GO:0000301	retrograde transport, vesicle recycling within Golgi	0.462963284	1.082144552
GO:0001938	positive regulation of endothelial cell proliferation	0.462556466	1.082175083
MP:0008535	enlarged lateral ventricles	0.987774749	1.082186004
ENSG00000035928	RFC1 subnetwork	0.462012515	1.082207957
GO:0032153	cell division site	0.461155878	1.082221693
ENSG00000168385	SEPT2 subnetwork	0.462928428	1.082244543
REACTOME_RNA_POLYMERASE_I	REACTOME_RNA_POLYMERASE_III_TRANSCRIPTION_INITIATION	0.45944423	1.082246492
ENSG00000206247	ENSG00000206247 subnetwork	0.460023278	1.082253185
MP:0005191	head tilt	0.460074777	1.08225601
GO:0005891	voltage-gated calcium channel complex	0.98776173	1.082260638
GO:0000303	response to superoxide	0.460609379	1.082275763
REACTOME_RNA_POLYMERASE_I	REACTOME_RNA_POLYMERASE_III_TRANSCRIPTION_TERMINATION	0.462547607	1.08230684
ENSG00000078295	ADCY2 subnetwork	0.464291049	1.082307935
MP:0002636	delayed vaginal opening	0.459610646	1.082307938
ENSG00000213024	NUP62 subnetwork	0.462881504	1.082312925
ENSG00000049541	RFC2 subnetwork	0.46443698	1.0823214

GO:0016052	carbohydrate catabolic process	0.987745386	1.082323885
REACTOME_BRANCHED:CHAIN_A	REACTOME_BRANCHED:CHAIN_AMINO_ACID_CATABOL	0.460390618	1.082344048
GO:0016525	negative regulation of angiogenesis	0.987709183	1.082360541
ENSG00000188428	MUTED subnetwork	0.460490228	1.082362768
ENSG00000021488	SLC7A9 subnetwork	0.460705376	1.082366036
GO:0045109	intermediate filament organization	0.987679146	1.082366801
GO:0043499	eukaryotic cell surface binding	0.461146253	1.082369759
GO:0003682	chromatin binding	0.459575124	1.082392795
MP:0004966	abnormal inner cell mass proliferation	0.462518762	1.082414885
ENSG00000145703	IQGAP2 subnetwork	0.464533865	1.082418795
GO:0097094	craniofacial suture morphogenesis	0.98764036	1.082422469
ENSG00000204304	PBX2 subnetwork	0.460023278	1.082425545
MP:0002764	short tibia	0.461061436	1.082427709
ENSG00000158528	PPP1R9A subnetwork	0.46395524	1.082428165
MP:0000281	abnormal interventricular septum morphology	0.46286601	1.082428797
ENSG00000135750	KCNK1 subnetwork	0.460569019	1.082437162
ENSG00000118965	WDR35 subnetwork	0.462714532	1.082439063
ENSG00000085733	CTTN subnetwork	0.464270117	1.082447144
GO:0000305	response to oxygen radical	0.460609379	1.082447908
MP:0003564	abnormal insulin secretion	0.462453913	1.082459614
REACTOME_CYCLIN_D_ASSOCIAT	REACTOME_CYCLIN_D_ASSOCIATED_EVENTS_IN_G1	0.464192147	1.082460155
ENSG00000005884	ITGA3 subnetwork	0.462814754	1.082481405
GO:0060363	cranial suture morphogenesis	0.98764036	1.082504751
ENSG00000173366	ENSG00000173366 subnetwork	0.461142437	1.082525814
MP:0008146	asymmetric rib-sternum attachment	0.461030792	1.082544097
ENSG00000135249	RINT1 subnetwork	0.459921466	1.082547395
ENSG00000167711	SERPINF2 subnetwork	0.463930153	1.082551713
ENSG00000159259	CHAF1B subnetwork	0.462425569	1.082551877
ENSG00000100994	PYGB subnetwork	0.462293082	1.08255427
ENSG00000175445	LPL subnetwork	0.460957016	1.082573109
GO:0008201	heparin binding	0.987637651	1.082587046
ENSG00000206315	PBX2 subnetwork	0.460023278	1.082597961
REACTOME_G1_PHASE	REACTOME_G1_PHASE	0.464192147	1.082630997
GO:0003407	neural retina development	0.98762782	1.082650346
ENSG00000169180	XPO6 subnetwork	0.462279491	1.082654517
ENSG00000078808	SDF4 subnetwork	0.463897952	1.082667404
ENSG00000140374	ETFA subnetwork	0.459912892	1.082695985
GO:0008277	regulation of G-protein coupled receptor protein signalir	0.987601137	1.082709854
MP:0002269	muscular atrophy	0.460952895	1.0827134
ENSG00000169217	CD2BP2 subnetwork	0.462421707	1.082723384
GO:0050771	negative regulation of axonogenesis	0.987571994	1.082757965
GO:0016888	endodeoxyribonuclease activity, producing 5'-phosphom	0.46418115	1.082786109
MP:0004274	abnormal embryonic/fetal subventricular zone morpholc	0.987538077	1.082813688
ENSG00000048828	FAM120A subnetwork	0.987505116	1.082854209
GO:0042982	amyloid precursor protein metabolic process	0.460950403	1.082877583
MP:0000966	decreased sensory neuron number	0.987504289	1.082936568
GO:0051971	positive regulation of transmission of nerve impulse	0.987458282	1.082961892
GO:0016079	synaptic vesicle exocytosis	0.987437424	1.083013845
GO:0007625	grooming behavior	0.987403328	1.083065804
GO:0019321	pentose metabolic process	0.987385198	1.083102556
MP:0002260	abnormal thyroid cartilage morphology	0.987374402	1.083165944
REACTOME_PYRIMIDINE_CATABC	REACTOME_PYRIMIDINE_CATABOLISM	0.987373306	1.083248364
ENSG00000157483	MYO1E subnetwork	0.464980212	1.083312313
GO:0005504	fatty acid binding	0.987368782	1.083326992

GO:0009064	glutamine family amino acid metabolic process	0.987364832	1.083405632
GO:0023021	termination of signal transduction	0.987292383	1.08341198
ENSG00000138750	NUP54 subnetwork	0.465104017	1.083425284
ENSG00000167460	TPM4 subnetwork	0.987231937	1.083429746
GO:0050775	positive regulation of dendrite morphogenesis	0.987223459	1.083500799
ENSG00000182923	CEP63 subnetwork	0.465307115	1.083525055
MP:0002014	increased papilloma incidence	0.98720151	1.083564251
MP:0003998	decreased thermal nociceptive threshold	0.987168534	1.083593453
ENSG00000171530	TBCA subnetwork	0.465278076	1.083640662
GO:0001501	skeletal system development	0.987073882	1.083655677
GO:0035815	positive regulation of renal sodium excretion	0.987146603	1.083656921
GO:0035282	segmentation	0.987051636	1.083734389
GO:0043124	negative regulation of I-kappaB kinase/NF-kappaB cascade	0.465686119	1.083740157
GO:0060349	bone morphogenesis	0.986944465	1.083789033
ENSG00000163485	ADORA1 subnetwork	0.987049012	1.083816922
GO:0007096	regulation of exit from mitosis	0.986942997	1.083871582
ENSG00000149782	PLCB3 subnetwork	0.465677748	1.083879351
GO:0043330	response to exogenous dsRNA	0.46555704	1.083921538
ENSG00000115760	BIRC6 subnetwork	0.986939288	1.083954144
ENSG000000084754	HADHA subnetwork	0.465631469	1.083963453
ENSG00000111364	DDX55 subnetwork	0.465853459	1.083971028
ENSG00000100227	POLDIP3 subnetwork	0.466000524	1.083976074
ENSG00000102898	NUTF2 subnetwork	0.466067096	1.084017941
GO:0007173	epidermal growth factor receptor signaling pathway	0.465941257	1.084028652
MP:0002887	decreased susceptibility to pharmacologically induced se	0.986939277	1.084036718
ENSG00000138376	BARD1 subnetwork	0.466199785	1.08407017
MP:0001325	abnormal retina morphology	0.986937508	1.084115496
GO:0016712	oxidoreductase activity, acting on paired donors, with in	0.466179089	1.084154209
GO:0034329	cell junction assembly	0.986934473	1.084194286
GO:0003279	cardiac septum development	0.986907596	1.084250229
GO:0017157	regulation of exocytosis	0.986897825	1.084329041
ENSG00000133773	CCDC59 subnetwork	0.986889309	1.084404054
ENSG00000122545	SEPT7 subnetwork	0.986861321	1.084460026
GO:0009268	response to pH	0.986844513	1.084523628
GO:0006672	ceramide metabolic process	0.986823165	1.084583429
GO:0021549	cerebellum development	0.986805456	1.08464705
REACTOME_NCAM1_INTERACTIO	REACTOME_NCAM1_INTERACTIONS	0.986701564	1.084694267
GO:0010721	negative regulation of cell development	0.986782745	1.084710681
ENSG00000160678	S100A1 subnetwork	0.986686561	1.084761723
GO:0072527	pyrimidine-containing compound metabolic process	0.986676059	1.084836816
MP:0002557	abnormal social/conspecific interaction	0.986649482	1.084911919
GO:0070307	lens fiber cell development	0.98660905	1.084937462
GO:0015833	peptide transport	0.986589058	1.084989703
ENSG000000041982	TNC subnetwork	0.46690461	1.085031447
ENSG00000197321	SVIL subnetwork	0.466774027	1.085042466
MP:0011093	complete embryonic lethality at implantation	0.986552726	1.085045767
GO:0043691	reverse cholesterol transport	0.466717499	1.085110901
GO:0009110	vitamin biosynthetic process	0.466879378	1.085123447
MP:0000846	abnormal medulla oblongata morphology	0.986548056	1.085124723
MP:0000886	abnormal cerebellar granule layer	0.986532222	1.085192249
GO:0030288	outer membrane-bounded periplasmic space	0.986510477	1.085248341
MP:0004324	vestibular hair cell degeneration	0.986322958	1.085285812
MP:0003932	abnormal molar crown morphology	0.986446284	1.085291873
GO:0015370	solute:sodium symporter activity	0.986405338	1.085306013

ENSG00000103742	IGDCC4 subnetwork	0.468477057	1.085316714
GO:0042597	periplasmic space	0.986510477	1.085331146
MP:0002584	small ectoplacental cone	0.468337847	1.085343476
GO:0044247	cellular polysaccharide catabolic process	0.986312006	1.085349565
GO:0031267	small GTPase binding	0.468431487	1.085424181
GO:0009251	glucan catabolic process	0.986312006	1.08543241
MP:0009238	coiled sperm flagellum	0.468299613	1.085490196
GO:0030199	collagen fibril organization	0.986289627	1.085492366
ENSG00000145365	TIFA subnetwork	0.468149499	1.085509179
MP:0001502	abnormal circadian rhythm	0.468675882	1.085530647
MP:0000088	short mandible	0.986192259	1.08553596
ENSG00000114850	SSR3 subnetwork	0.986260738	1.085540881
ENSG00000105880	DLX5 subnetwork	0.986169461	1.085607391
KEGG_GLYCOPHINGOLIPID_BIOS	KEGG_GLYCOPHINGOLIPID_BIOSYNTHESIS_LACTO_ANI	0.468111915	1.085608914
GO:0010810	regulation of cell-substrate adhesion	0.468284645	1.08561343
KEGG_FATTY_ACID_METABOLISM	KEGG_FATTY_ACID_METABOLISM	0.467295256	1.085654771
ENSG00000120149	MSX2 subnetwork	0.98607436	1.085685376
ENSG00000168421	RHOH subnetwork	0.986162865	1.085686469
ENSG00000140678	ITGAX subnetwork	0.467820035	1.085691849
GO:0060537	muscle tissue development	0.467582236	1.085724387
MP:0005410	abnormal fertilization	0.46809622	1.08574792
ENSG00000082898	XPO1 subnetwork	0.467679142	1.085765907
ENSG00000100170	SLC5A1 subnetwork	0.986069848	1.085768291
GO:0014009	glial cell proliferation	0.986017129	1.085797755
ENSG00000182004	SNRPE subnetwork	0.467782533	1.08579956
GO:0015923	mannosidase activity	0.985978181	1.085823404
ENSG00000130653	PNPLA7 subnetwork	0.467452832	1.085845646
MP:0001313	increased incidence of corneal inflammation	0.467555905	1.085871444
GO:0046839	phospholipid dephosphorylation	0.985956224	1.085879612
MP:0009414	skeletal muscle fiber necrosis	0.98589923	1.085912911
ENSG00000005961	ITGA2B subnetwork	0.46809576	1.085918367
REACTOME_REV:MEDIATED_NUC	REACTOME_REV:MEDIATED_NUCLEAR_EXPORT_OF_HIV	0.468044703	1.085955409
GO:0048820	hair follicle maturation	0.985770691	1.085964242
GO:0007494	midgut development	0.985877295	1.085969134
ENSG00000178896	EXOSC4 subnetwork	0.468005793	1.086031721
GO:0048864	stem cell development	0.985765823	1.086035761
ENSG00000163828	ENSG00000163828 subnetwork	0.468951421	1.08604232
GO:0010634	positive regulation of epithelial cell migration	0.469071472	1.086115029
GO:0048645	organ formation	0.985762334	1.086118753
GO:0000272	polysaccharide catabolic process	0.985753506	1.086197937
GO:0042752	regulation of circadian rhythm	0.46954731	1.086198528
KEGG_ENDOCYTOSIS	KEGG_ENDOCYTOSIS	0.469809019	1.086199343
MP:0002940	variable body spotting	0.985740484	1.086273311
GO:0032012	regulation of ARF protein signal transduction	0.469958437	1.086311014
MP:0001216	abnormal epidermal layer morphology	0.46972386	1.08633589
MP:0010879	decreased trabecular bone volume	0.469525609	1.0863373
GO:0032580	Golgi cisterna membrane	0.46979939	1.086338028
GO:0015491	cation:cation antiporter activity	0.98574045	1.08635634
ENSG00000166855	CLPX subnetwork	0.46925422	1.086360075
ENSG00000129255	MPDU1 subnetwork	0.469671047	1.086380714
ENSG00000182326	C1S subnetwork	0.469489504	1.086389977
GO:0001702	gastrulation with mouth forming second	0.985618036	1.086407767
GO:0005834	heterotrimeric G-protein complex	0.985574616	1.086433486
ENSG00000171867	PRNP subnetwork	0.985736061	1.08643556

ENSG00000107862	GBF1 subnetwork	0.469386469	1.086503212
ENSG00000020426	MNAT1 subnetwork	0.46946018	1.086505326
ENSG00000128683	GAD1 subnetwork	0.985573733	1.086508907
ENSG00000091536	MYO15A subnetwork	0.985551479	1.086557578
MP:0000111	cleft palate	0.985526108	1.086583314
ENSG00000160803	UBQLN4 subnetwork	0.985510685	1.086658764
GO:0001570	vasculogenesis	0.985442047	1.086702616
ENSG00000140105	WARS subnetwork	0.985497443	1.086730402
ENSG00000101004	NINL subnetwork	0.985426867	1.086774268
GO:0010822	positive regulation of mitochondrion organization	0.985421482	1.086849755
ENSG00000154342	WNT3A subnetwork	0.985408797	1.086917604
ENSG00000130254	SAFB2 subnetwork	0.985401273	1.086989288
GO:0072089	stem cell proliferation	0.985364019	1.087045681
ENSG00000183395	PMCH subnetwork	0.985261665	1.08706283
ENSG00000112559	MDFI subnetwork	0.985338423	1.087086777
REACTOME_ADENYLATE_CYCLASE	REACTOME_ADENYLATE_CYCLASE_ACTIVATING_PATHW	0.985241158	1.087103934
GO:0006112	energy reserve metabolic process	0.985230143	1.087171833
GO:0050953	sensory perception of light stimulus	0.985198393	1.087228261
ENSG00000187239	FNBP1 subnetwork	0.985191067	1.087303835
ENSG00000087586	AURKA subnetwork	0.985159844	1.087367938
GO:0060415	muscle tissue morphogenesis	0.985156148	1.087447362
GO:0007019	microtubule depolymerization	0.985089791	1.087480858
GO:0006760	folic acid-containing compound metabolic process	0.984973214	1.087505744
ENSG00000145864	GABRB2 subnetwork	0.985056157	1.087514358
GO:0007129	synapsis	0.470477605	1.087572345
MP:0006325	impaired hearing	0.984957314	1.087581374
MP:0001300	ocular hypertelorism	0.984937151	1.087641697
GO:0061371	determination of heart left/right asymmetry	0.984676876	1.087657064
ENSG00000043591	ADRB1 subnetwork	0.984899366	1.08767905
GO:0060674	placenta blood vessel development	0.984866664	1.087701088
GO:0072006	nephron development	0.98477225	1.087703976
GO:0001947	heart looping	0.984676876	1.087740403
GO:0016861	intramolecular oxidoreductase activity, interconverting a	0.470645423	1.087785424
MP:0005262	coloboma	0.984673689	1.087819923
GO:0016775	phosphotransferase activity, nitrogenous group as accep	0.984670013	1.087899456
GO:0009975	cyclase activity	0.984646353	1.087956009
ENSG00000172020	GAP43 subnetwork	0.984641016	1.088035564
ENSG00000175063	UBE2C subnetwork	0.9846289	1.088095968
GO:0002090	regulation of receptor internalization	0.984510854	1.088132475
ENSG00000214717	ZBED1 subnetwork	0.984470298	1.088162233
MP:0002065	abnormal fear/anxiety-related behavior	0.984610326	1.088171713
MP:0001129	impaired ovarian folliculogenesis	0.470958503	1.08818793
ENSG00000125084	WNT1 subnetwork	0.984463919	1.088230333
ENSG00000138396	ENSG00000138396 subnetwork	0.470929646	1.088272088
GO:0032963	collagen metabolic process	0.471190767	1.088287232
GO:0051180	vitamin transport	0.984450947	1.088290775
GO:0035813	regulation of renal sodium excretion	0.984404699	1.088324387
ENSG00000011275	RNF216 subnetwork	0.471154962	1.088332291
GO:0035812	renal sodium excretion	0.984404699	1.088407853
ENSG00000162521	RBBP4 subnetwork	0.471139141	1.088455526
GO:0072163	mesonephric epithelium development	0.984387679	1.088475993
MP:0003691	abnormal microglial cell physiology	0.471348291	1.0885
REACTOME_REGULATION_OF_IN'	REACTOME_REGULATION_OF_INSULIN_SECRETION_BY_	0.47140738	1.088501797
GO:0072164	mesonephric tubule development	0.984387679	1.088559485

ENSG00000171533	MAP6 subnetwork	0.984370251	1.088619975
GO:0007613	memory	0.984331882	1.088657461
GO:0043204	perikaryon	0.984316896	1.088733313
ENSG00000169155	ZBTB43 subnetwork	0.984277636	1.088747794
GO:0015669	gas transport	0.471580066	1.088753515
ENSG00000087095	NLK subnetwork	0.472292908	1.088753705
ENSG00000129625	REEP5 subnetwork	0.471669326	1.088778697
GO:0003777	microtubule motor activity	0.472078625	1.088810861
REACTOME_CHYLOMICRON:MEDIATED_LIPID_TRANSPORT	REACTOME_CHYLOMICRON:MEDIATED_LIPID_TRANSPORT	0.471900292	1.088815173
GO:0033003	regulation of mast cell activation	0.984276794	1.088823665
MP:0001515	abnormal grip strength	0.472017436	1.088848135
GO:0051281	positive regulation of release of sequestered calcium ion	0.472252828	1.088868955
MP:0009237	kinked sperm flagellum	0.984264737	1.08889571
ENSG00000141503	MINK1 subnetwork	0.472431309	1.08893481
GO:0007127	meiosis I	0.471810102	1.088952217
MP:0001353	increased aggression towards mice	0.984247994	1.088963929
MP:0003659	abnormal lymph circulation	0.471893656	1.088977361
GO:0019432	triglyceride biosynthetic process	0.472247785	1.08903105
MP:0000751	myopathy	0.984247807	1.089047509
GO:0005849	mRNA cleavage factor complex	0.472584289	1.089100265
GO:0043325	phosphatidylinositol-3,4-bisphosphate binding	0.984245436	1.089131102
GO:0016780	phosphotransferase activity, for other substituted phospho	0.984216144	1.089176326
ENSG00000184588	PDE4B subnetwork	0.984108644	1.089216891
GO:0000216	M/G1 transition of mitotic cell cycle	0.984180663	1.089221557
ENSG00000197579	TOPORS subnetwork	0.47288101	1.089253429
MP:0009936	abnormal dendritic spine morphology	0.984096681	1.089281327
ENSG00000090006	LTBP4 subnetwork	0.472832112	1.08933749
MP:0000964	small dorsal root ganglion	0.984085062	1.089341934
ENSG00000158195	WASF2 subnetwork	0.472773191	1.089359214
MP:0008412	increased cellular sensitivity to oxidative stress	0.984064572	1.089406389
REACTOME_IRON_UPTAKE_AND_TRANSPORT	REACTOME_IRON_UPTAKE_AND_TRANSPORT	0.984026538	1.089467015
GO:0006688	glycosphingolipid biosynthetic process	0.983964764	1.089512289
REACTOME_CDC20PHOSPHO:APCC_MEDIATED_DEGRADATION	REACTOME_CDC20PHOSPHO:APCC_MEDIATED_DEGRADATION	0.983935033	1.08955757
MP:0000572	abnormal autopod morphology	0.98391769	1.089637425
GO:0060795	cell fate commitment involved in formation of primary germ	0.98389676	1.089701928
ENSG00000204655	MOG subnetwork	0.983894803	1.089785648
ENSG00000204590	GNL1 subnetwork	0.475675558	1.089786113
ENSG00000135424	ITGA7 subnetwork	0.475892802	1.089837335
ENSG00000101138	CSTF1 subnetwork	0.475763333	1.089857431
ENSG00000137345	MOG subnetwork	0.983894803	1.089869381
GO:0046689	response to mercury ion	0.47583066	1.089882244
ENSG00000206456	ENSG00000206456 subnetwork	0.983894803	1.089953127
ENSG00000206412	GNL1 subnetwork	0.475675558	1.089955046
ENSG00000130741	EIF2S3 subnetwork	0.476008809	1.08997057
GO:0001710	mesodermal cell fate commitment	0.983865587	1.089998463
ENSG00000173702	MUC13 subnetwork	0.473291954	1.090065451
GO:0009452	RNA capping	0.983856788	1.090070704
ENSG00000206492	GNL1 subnetwork	0.475675558	1.090124031
MP:0009743	preaxial polydactyly	0.983840279	1.090127584
ENSG00000160145	KALRN subnetwork	0.983793165	1.090146042
ENSG00000133398	MED10 subnetwork	0.475472348	1.090150458
ENSG00000078269	SYNJ2 subnetwork	0.475620995	1.090153512
GO:0043535	regulation of blood vessel endothelial cell migration	0.983702381	1.090213715
REACTOME_SIGNALLING_TO_RAS	REACTOME_SIGNALLING_TO_RAS	0.475424081	1.09021874

ENSG00000163806	SPDYA subnetwork	0.476254996	1.090221431
GO:0048486	parasympathetic nervous system development	0.983786202	1.090222154
MP:0004179	transmission ratio distortion	0.473433459	1.090230601
GO:0048634	regulation of muscle organ development	0.47620323	1.090243147
ENSG00000174446	SNAPC5 subnetwork	0.475256296	1.090245227
ENSG00000128731	HERC2 subnetwork	0.983682714	1.090278312
ENSG00000121989	ACVR2A subnetwork	0.475181599	1.090282521
GO:0003085	negative regulation of systemic arterial blood pressure	0.475612574	1.090291563
GO:0030136	clathrin-coated vesicle	0.475320594	1.090293296
ENSG00000135723	FHOD1 subnetwork	0.473498283	1.090302228
GO:0072509	divalent inorganic cation transmembrane transporter activity	0.476788433	1.09031859
ENSG00000181019	NQO1 subnetwork	0.983653485	1.090327541
REACTOME_PLATELET_CALCIIUM_REACTOME_PLATELET_CALCIIUM_HOMEOSTASIS		0.475396435	1.09034135
GO:0071548	response to dexamethasone stimulus	0.983419692	1.09038994
MP:0009760	abnormal mitotic spindle morphology	0.983498444	1.090390679
ENSG00000070785	EIF2B3 subnetwork	0.983649985	1.09041138
GO:0007220	Notch receptor processing	0.983390425	1.090427659
GO:0001516	prostaglandin biosynthetic process	0.475172525	1.090428505
ENSG00000116350	SRSF4 subnetwork	0.476686175	1.090462562
ENSG00000125378	BMP4 subnetwork	0.476779552	1.090464037
GO:0070613	regulation of protein processing	0.983629994	1.090468317
GO:0034704	calcium channel complex	0.983368529	1.090488462
GO:0016646	oxidoreductase activity, acting on the CH-NH group of donor	0.983356126	1.090572352
GO:0035085	cilium axoneme	0.476602377	1.090583411
REACTOME_CLASSICAL_ANTIBODIUM_REACTOME_CLASSICAL_ANTIBODY:MEDIATED_COMPLEMENT_ACTIVATION		0.477102768	1.090584416
ENSG00000075673	ATP12A subnetwork	0.476669823	1.090584868
GO:0043666	regulation of phosphoprotein phosphatase activity	0.476474153	1.090595975
GO:0046457	prostanoid biosynthetic process	0.475172525	1.090597826
GO:0007601	visual perception	0.983338729	1.090644715
ENSG00000175166	PSMD2 subnetwork	0.474829216	1.090644911
ENSG00000188687	SLC4A5 subnetwork	0.474896975	1.090654133
REACTOME_DSCAM_INTERACTIONS	REACTOME_DSCAM_INTERACTIONS	0.4765552	1.090659341
ENSG00000182752	PAPPA subnetwork	0.474698644	1.090673092
GO:0042393	histone binding	0.475070916	1.090680336
ENSG00000138741	TRPC3 subnetwork	0.477074108	1.09068347
ENSG00000091129	NRCAM subnetwork	0.474770068	1.090690084
GO:0015718	monocarboxylic acid transport	0.983324539	1.090713242
GO:0001530	lipopolysaccharide binding	0.474205728	1.090725179
REACTOME_BILE_SALT_AND_ORGANIC_ANION_TRANSPORTER_ACTIVITY	REACTOME_BILE_SALT_AND_ORGANIC_ANION_SLC_TRANSPORTER_ACTIVITY	0.475005	1.090725493
ENSG00000133706	LARS subnetwork	0.476461193	1.090741601
ENSG00000103510	KAT8 subnetwork	0.477342029	1.090741886
GO:0035091	phosphatidylinositol binding	0.475160552	1.090743904
MP:0005326	abnormal podocyte morphology	0.474401728	1.0907514
MP:0002823	abnormal rib development	0.474121914	1.090785992
ENSG00000115541	HSPE1 subnetwork	0.474324771	1.090788859
MP:0004220	abnormal peripheral nervous system regeneration	0.983315536	1.090789474
ENSG00000066427	ATXN3 subnetwork	0.983253059	1.090811851
MP:0002864	abnormal ocular fundus morphology	0.474694321	1.090827114
MP:0000434	megacephaly	0.474632155	1.090880112
ENSG00000133116	KL subnetwork	0.477325219	1.090887309
MP:0004409	abnormal crista ampullaris neuroepithelium morphology	0.983247063	1.090895798
ENSG00000160202	CRYAA subnetwork	0.474535813	1.090908384
GO:0004622	lysophospholipase activity	0.474115746	1.090948007
ENSG00000167996	FTH1 subnetwork	0.983231412	1.090968214

MP:0003949	abnormal circulating lipid level	0.474620511	1.09100311
MP:0005404	abnormal axon morphology	0.983188137	1.091009852
REACTOME_RAFMAP_KINASE_CA	REACTOME_RAFMAP_KINASE_CASCADE	0.473926247	1.091021648
MP:0009331	absent primitive node	0.474004821	1.091054189
ENSG00000148200	NR6A1 subnetwork	0.474071381	1.091071151
GO:0001824	blastocyst development	0.983184501	1.091093834
REACTOME_MEMBRANE_BINDIN	REACTOME_MEMBRANE_BINDING_AND_TARGETTING_	0.983169666	1.091158584
GO:0000932	cytoplasmic mRNA processing body	0.473919927	1.091191589
ENSG00000184672	RALYL subnetwork	0.983121787	1.091192548
GO:0015711	organic anion transport	0.983113393	1.091272713
GO:0001190	RNA polymerase II transcription factor binding transcript	0.98310945	1.091349041
GO:0001105	RNA polymerase II transcription coactivator activity	0.98310945	1.091433082
ENSG00000165775	FUNDC2 subnetwork	0.983095387	1.091509434
GO:0031532	actin cytoskeleton reorganization	0.983038749	1.09155114
GO:0048489	synaptic vesicle transport	0.982998745	1.091592852
KEGG_FRUCTOSE_AND_MANNOS	KEGG_FRUCTOSE_AND_MANNANOSE_METABOLISM	0.477797518	1.091624169
GO:0045995	regulation of embryonic development	0.982998246	1.091676937
ENSG00000168765	GSTM4 subnetwork	0.982971003	1.091737925
ENSG00000155974	GRIP1 subnetwork	0.982964439	1.091818182
ENSG00000134287	ARF3 subnetwork	0.982835361	1.091847742
ENSG00000139182	CLSTN3 subnetwork	0.982663948	1.091854192
ENSG00000169509	CRCT1 subnetwork	0.982496394	1.091867725
ENSG00000101439	CST3 subnetwork	0.98278507	1.091885644
ENSG00000167136	ENDOG subnetwork	0.982958861	1.091898451
GO:0030858	positive regulation of epithelial cell differentiation	0.982460305	1.091901788
ENSG00000166887	VPS39 subnetwork	0.982655316	1.091926782
GO:0000038	very long-chain fatty acid metabolic process	0.982622069	1.09197626
ENSG00000182492	BGN subnetwork	0.982450692	1.091978259
GO:0009247	glycolipid biosynthetic process	0.98240585	1.092000771
REACTOME_REGULATION_OF_AP	REACTOME_REGULATION_OF_APCC_ACTIVATORS_BETV	0.982401899	1.092084972
GO:0060840	artery development	0.982359285	1.092130629
ENSG00000185883	ATP6V0C subnetwork	0.98235906	1.092214853
MP:0011104	partial embryonic lethality before implantation	0.982327767	1.092283665
MP:0004989	decreased osteoblast cell number	0.982324331	1.092360201
GO:0045921	positive regulation of exocytosis	0.982317584	1.092432891
GO:0071108	protein K48-linked deubiquitination	0.478268625	1.092490729
MP:0002757	decreased vertical activity	0.982310209	1.092513307
MP:0005633	increased circulating sodium level	0.982292218	1.092582163
ENSG00000131100	ATP6V1E1 subnetwork	0.478720067	1.092598024
GO:0050796	regulation of insulin secretion	0.982280218	1.092647172
MP:0003063	increased coping response	0.982259344	1.092696759
GO:0048169	regulation of long-term neuronal synaptic plasticity	0.98221663	1.092719346
ENSG00000198681	MAGEA1 subnetwork	0.478704672	1.092751274
GO:0008603	cAMP-dependent protein kinase regulator activity	0.982188424	1.09275737
GO:0016272	prefoldin complex	0.478449438	1.092769968
ENSG00000168907	PLA2G4F subnetwork	0.478671332	1.092819642
ENSG00000133710	SPINK5 subnetwork	0.982173758	1.092826272
GO:0055062	phosphate ion homeostasis	0.982118872	1.092833436
GO:0003158	endothelium development	0.982031194	1.092917246
GO:0072506	trivalent inorganic anion homeostasis	0.982118872	1.092917792
ENSG00000186831	ENSG00000186831 subnetwork	0.478649819	1.092934363
GO:0032102	negative regulation of response to external stimulus	0.481287409	1.092941628
GO:0060445	branching involved in salivary gland morphogenesis	0.479059733	1.092962963
ENSG00000168090	COPS6 subnetwork	0.480327959	1.092989072

ENSG00000164402	SEPT8 subnetwork	0.982026918	1.092997761
ENSG00000214869	ENSG00000214869 subnetwork	0.478624732	1.093018227
MP:0003728	abnormal retinal photoreceptor layer morphology	0.982010548	1.093066708
GO:0042440	pigment metabolic process	0.47946111	1.09308404
GO:0005721	centromeric heterochromatin	0.479526724	1.093085106
MP:0001153	small seminiferous tubules	0.481263331	1.093086496
ENSG00000111642	CHD4 subnetwork	0.480043144	1.093092561
ENSG00000075891	PAX2 subnetwork	0.479044702	1.09309307
GO:0007520	myoblast fusion	0.479396318	1.093098396
MP:0000930	wavy neural tube	0.479345239	1.093128181
ENSG00000113522	RAD50 subnetwork	0.479171672	1.093133776
GO:0015296	anion:cation symporter activity	0.981990363	1.093139526
GO:0010524	positive regulation of calcium ion transport into cytosol	0.480221342	1.093148576
ENSG00000183741	CBX6 subnetwork	0.480323156	1.093149631
ENSG00000198300	ZIM2 subnetwork	0.480018898	1.093183919
MP:0008263	abnormal hippocampus CA1 region morphology	0.981959261	1.093185328
GO:0005604	basement membrane	0.481251935	1.09323909
GO:0016234	inclusion body	0.480203048	1.093263012
ENSG00000153944	MSI2 subnetwork	0.479320545	1.093265967
MP:0001065	abnormal trigeminal nerve morphology	0.981955518	1.093269751
MP:0001438	aphagia	0.981903632	1.0932924
ENSG00000064995	TAF11 subnetwork	0.480545567	1.093305633
GO:0051702	interaction with symbiont	0.479994224	1.093313819
ENSG00000113658	SMAD5 subnetwork	0.481197983	1.093314892
ENSG00000124782	RREB1 subnetwork	0.479720495	1.093317404
ENSG00000171403	KRT9 subnetwork	0.98188932	1.093357535
GO:0070160	occluding junction	0.479961969	1.093412943
ENSG00000160844	GATS subnetwork	0.481104527	1.093435819
REACTOME_APCCCDH1_MEDIATE	REACTOME_APCCCDH1_MEDIATED_DEGRADATION_OF_	0.981886253	1.09344199
ENSG00000154447	SH3RF1 subnetwork	0.481183391	1.093452198
ENSG00000170312	CDK1 subnetwork	0.480686333	1.093483613
MP:0002855	abnormal cochlear ganglion morphology	0.981844293	1.093483971
GO:0035914	skeletal muscle cell differentiation	0.480975373	1.09349531
GO:0033605	positive regulation of catecholamine secretion	0.981815879	1.093541409
ENSG00000124535	WRNIP1 subnetwork	0.481087051	1.093550123
GO:0005923	tight junction	0.479961969	1.093581446
GO:0031102	neuron projection regeneration	0.981748133	1.093583404
ENSG00000176095	IP6K1 subnetwork	0.480944679	1.093586589
ENSG00000076924	XAB2 subnetwork	0.480894847	1.093631749
GO:0005913	cell-cell adherens junction	0.981739029	1.093652449
ENSG00000150337	FCGR1A subnetwork	0.981700249	1.093679005
MP:0004768	abnormal axonal transport	0.479944656	1.093719174
MP:0002913	abnormal PNS synaptic transmission	0.981698535	1.093755796
GO:0031970	organelle envelope lumen	0.480881463	1.093769231
GO:0015929	hexosaminidase activity	0.981679222	1.093805549
GO:0035326	enhancer binding	0.981625153	1.093820529
GO:0001508	regulation of action potential	0.981619692	1.093897349
GO:0005892	acetylcholine-gated channel complex	0.981613399	1.093970315
REACTOME_INSULIN_RECEPTOR_	REACTOME_INSULIN_RECEPTOR_RECYCLING	0.981522106	1.094046699
GO:0006909	phagocytosis	0.9816128	1.09405489
MP:0009890	cleft secondary palate	0.9814839	1.094100363
ENSG00000007168	PAFAH1B1 subnetwork	0.981423019	1.094172918
GO:0015464	acetylcholine receptor activity	0.981475336	1.094181101
REACTOME_ADENYLATE_CYCLASE	REACTOME_ADENYLATE_CYCLASE_INHIBITORY_PATHW/	0.981351358	1.094257096

GO:0010469	regulation of receptor activity	0.981422422	1.094257541
GO:0048599	oocyte development	0.481966593	1.094294271
ENSG00000163743	RCHY1 subnetwork	0.482116305	1.094296023
REACTOME_INHIBITION_OF_ADEI	REACTOME_INHIBITION_OF_ADENYLATE_CYCLASE_PATI	0.981351358	1.094341739
GO:2000756	regulation of peptidyl-lysine acetylation	0.981324167	1.094391584
ENSG00000099139	PCSK5 subnetwork	0.482071814	1.094410319
GO:0043195	terminal button	0.981290795	1.094445304
GO:0052689	carboxylic ester hydrolase activity	0.981268915	1.094510638
ENSG00000111199	TRPV4 subnetwork	0.482317707	1.094511821
GO:0030665	clathrin coated vesicle membrane	0.981170443	1.094540741
GO:0032288	myelin assembly	0.981263371	1.094591458
GO:0017075	syntaxin-1 binding	0.981169195	1.094625445
GO:0010662	regulation of striated muscle cell apoptotic process	0.981167914	1.094706292
ENSG00000107611	CUBN subnetwork	0.980941628	1.094716674
ENSG00000156970	BUB1B subnetwork	0.980882774	1.094724007
GO:0006911	phagocytosis, engulfment	0.981121902	1.094729102
GO:0003151	outflow tract morphogenesis	0.981039232	1.094736435
GO:0008156	negative regulation of DNA replication	0.482526813	1.094781274
GO:0009065	glutamine family amino acid catabolic process	0.980863851	1.09479328
ENSG00000154928	EPHB1 subnetwork	0.980852285	1.094847077
GO:0035253	ciliary rootlet	0.980820432	1.094889267
ENSG00000070018	LRP6 subnetwork	0.980800312	1.094931464
ENSG00000116670	MAD2L2 subnetwork	0.980789296	1.094981413
ENSG00000183092	BEGAIN subnetwork	0.980784196	1.09506235
GO:0003417	growth plate cartilage development	0.980499916	1.09511118
GO:0031109	microtubule polymerization or depolymerization	0.98077497	1.0951433
GO:0090199	regulation of release of cytochrome c from mitochondria	0.980475477	1.095161165
MP:0008148	abnormal rib-sternum attachment	0.980602955	1.095173536
ENSG00000178028	DMAP1 subnetwork	0.980771248	1.095224262
GO:0006825	copper ion transport	0.980463118	1.095242154
GO:0008028	monocarboxylic acid transmembrane transporter activity	0.980434206	1.095292157
ENSG00000133265	HSPBP1 subnetwork	0.48285233	1.095326888
GO:0006370	mRNA capping	0.980403822	1.095349919
GO:0033762	response to glucagon stimulus	0.980297411	1.095403457
GO:0003338	metanephros morphogenesis	0.980383196	1.095403813
GO:0044420	extracellular matrix part	0.980265627	1.095465116
REACTOME_PURINE_SALVAGE	REACTOME_PURINE_SALVAGE	0.980243613	1.095530661
GO:0033108	mitochondrial respiratory chain complex assembly	0.980238534	1.09560397
ENSG00000175213	ZNF408 subnetwork	0.980198023	1.09562689
GO:0008210	estrogen metabolic process	0.483307173	1.095690184
GO:0000097	sulfur amino acid biosynthetic process	0.980174085	1.095692463
ENSG00000163462	TRIM46 subnetwork	0.98014483	1.095742536
GO:0030004	cellular monovalent inorganic cation homeostasis	0.483184386	1.095742559
GO:0050996	positive regulation of lipid catabolic process	0.485340468	1.095746143
GO:0010811	positive regulation of cell-substrate adhesion	0.483853679	1.095794393
ENSG00000197858	GPAA1 subnetwork	0.485618247	1.095801527
GO:0016500	protein-hormone receptor activity	0.980137316	1.095827517
GO:0005930	axoneme	0.483286901	1.095842921
ENSG00000165629	ATP5C1 subnetwork	0.48375851	1.095862069
GO:0042993	positive regulation of transcription factor import into nu	0.485318864	1.095867705
GO:0007617	mating behavior	0.980129036	1.095900876
GO:0016814	hydrolase activity, acting on carbon-nitrogen (but not pe	0.483179588	1.095910695
ENSG00000177425	PAWR subnetwork	0.485515786	1.095937691
GO:0006733	oxidoreduction coenzyme metabolic process	0.980108036	1.095939342

GO:0051117	ATPase binding	0.485947778	1.095948421
ENSG00000153006	SREK1IP1 subnetwork	0.485609056	1.095953581
ENSG00000100926	TM9SF1 subnetwork	0.483852295	1.095962305
ENSG00000128578	FAM40B subnetwork	0.485848305	1.095963065
ENSG00000143761	ARF1 subnetwork	0.485295595	1.095974026
GO:0031016	pancreas development	0.483728837	1.095976395
MP:0003797	abnormal compact bone morphology	0.486032955	1.096002441
ENSG00000167645	YIF1B subnetwork	0.485787583	1.096008243
GO:0042742	defense response to bacterium	0.486302955	1.096011896
GO:0046933	hydrogen ion transporting ATP synthase activity, rotation	0.980096393	1.096012722
GO:0042470	melanosome	0.484060699	1.096017767
ENSG00000169282	KCNAB1 subnetwork	0.98003531	1.096043445
ENSG00000101003	GINS1 subnetwork	0.486469401	1.09605885
GO:0006839	mitochondrial transport	0.484156533	1.096071975
MP:0002267	abnormal bronchiole morphology	0.483685494	1.096075425
ENSG00000120500	ARR3 subnetwork	0.485277608	1.096103301
GO:0042246	tissue regeneration	0.980030096	1.096128482
REACTOME_CELL:EXTRACELLULAR	REACTOME_CELL:EXTRACELLULAR_MATRIX_INTERACTIO	0.485170551	1.096133272
ENSG00000203813	HIST1H3H subnetwork	0.486280151	1.096148566
GO:0048770	pigment granule	0.484060699	1.096185662
MP:0000934	abnormal telencephalon development	0.980009669	1.096198014
GO:0060541	respiratory system development	0.486453635	1.096203111
ENSG00000136273	HUS1 subnetwork	0.484963042	1.096207951
ENSG00000145242	EPHA5 subnetwork	0.483680987	1.096212818
ENSG00000156973	PDE6D subnetwork	0.486217162	1.096216629
MP:0003953	abnormal hormone level	0.48426428	1.096218037
GO:0050919	negative chemotaxis	0.979956261	1.096220998
ENSG00000135916	ITM2C subnetwork	0.484337327	1.096233925
MP:0000153	rib bifurcation	0.9799255	1.096271147
MP:0004938	dilated vasculature	0.485157556	1.09628554
MP:0000550	abnormal forelimb morphology	0.979857923	1.09629026
MP:0003560	osteoarthritis	0.483642898	1.096304248
ENSG00000088320	REM1 subnetwork	0.484813138	1.096344448
ENSG00000132535	DLG4 subnetwork	0.979842155	1.096352065
ENSG00000131795	RBM8A subnetwork	0.484939814	1.096352653
ENSG00000173465	SSSCA1 subnetwork	0.484447493	1.09636461
MP:0005282	decreased fatty acid level	0.979818204	1.096402236
ENSG00000133805	AMPD3 subnetwork	0.485125502	1.096414921
GO:0030224	monocyte differentiation	0.484557968	1.096418733
GO:0060485	mesenchyme development	0.979767784	1.096429126
MP:0001504	abnormal posture	0.979702968	1.09645602
REACTOME_TETRAHYDROBIOPTE	REACTOME_TETRAHYDROBIOPTERIN_BH4_SYNTHESIS_F	0.484700022	1.096458078
GO:0002065	columnar/cuboidal epithelial cell differentiation	0.486747763	1.096471037
MP:0002175	decreased brain weight	0.484789127	1.096473918
GO:0002886	regulation of myeloid leukocyte mediated immunity	0.979664586	1.096490683
ENSG00000160972	PPP1R16A subnetwork	0.979398893	1.096540075
ENSG00000170604	IRF2BP1 subnetwork	0.979563557	1.096563907
ENSG00000184916	JAG2 subnetwork	0.979656047	1.096568057
MP:0000534	abnormal ureter morphology	0.979511451	1.096594704
GO:0051279	regulation of release of sequestered calcium ion into cyto	0.484686238	1.096602907
GO:0004930	G-protein coupled receptor activity	0.979385955	1.096609709
ENSG00000156052	GNAQ subnetwork	0.487096002	1.096609782
ENSG00000144867	SRPRB subnetwork	0.979371915	1.096683238
MP:0009866	abnormal aorta wall morphology	0.487032102	1.096693081

GO:0006783	heme biosynthetic process	0.487296922	1.096709825
ENSG00000125482	TTF1 subnetwork	0.487004409	1.096753544
GO:0018022	peptidyl-lysine methylation	0.487247323	1.096755027
ENSG00000152578	GRIA4 subnetwork	0.979369969	1.09676843
ENSG00000102781	KATNAL1 subnetwork	0.979361916	1.096841983
GO:0050806	positive regulation of synaptic transmission	0.979321506	1.0968767
GO:0048708	astrocyte differentiation	0.979260254	1.096899767
MP:0001178	pulmonary hypoplasia	0.979243769	1.096969461
GO:0006103	2-oxoglutarate metabolic process	0.979241999	1.097054709
ENSG00000106305	AIMP2 subnetwork	0.979167403	1.097124203
ENSG00000167768	KRT1 subnetwork	0.979233551	1.097132199
GO:2000273	positive regulation of receptor activity	0.979052394	1.097154851
ENSG00000086827	ZW10 subnetwork	0.978995926	1.097174065
GO:0005416	cation:amino acid symporter activity	0.97895261	1.09718162
MP:0002544	brachydactyly	0.97916642	1.097205597
GO:0050922	negative regulation of chemotaxis	0.978942325	1.097255268
ENSG00000105290	APLP1 subnetwork	0.978926077	1.097336703
GO:0006220	pyrimidine nucleotide metabolic process	0.978915849	1.097390932
ENSG00000105464	GRIN2D subnetwork	0.978899202	1.09744517
GO:0005539	glycosaminoglycan binding	0.978872116	1.097511083
MP:0004355	short radius	0.978823179	1.097542004
MP:0004748	increased susceptibility to age-related hearing loss	0.978790098	1.097592377
GO:2000027	regulation of organ morphogenesis	0.978787243	1.097673876
MP:0000455	abnormal maxilla morphology	0.978747787	1.097712596
REACTOME_ASSEMBLY_OF_HIV_VIRION	REACTOME_ASSEMBLY_OF_HIV_VIRION	0.978733701	1.097778556
ENSG00000172466	ZNF24 subnetwork	0.97870295	1.097852307
ENSG00000062725	APPBP2 subnetwork	0.978698567	1.097922179
GO:0043086	negative regulation of catalytic activity	0.978671429	1.097960931
ENSG00000109065	NAT9 subnetwork	0.48809206	1.097982643
MP:0004111	abnormal coronary artery morphology	0.488049551	1.098005177
ENSG00000006740	ARHGAP44 subnetwork	0.978669472	1.098046389
GO:0030496	midbody	0.978656808	1.098108508
ENSG00000011465	DCN subnetwork	0.488044579	1.098172403
ENSG00000107537	PHYH subnetwork	0.978646499	1.098190098
GO:0043647	inositol phosphate metabolic process	0.978612853	1.098252238
ENSG00000169783	LINGO1 subnetwork	0.978565905	1.098271566
GO:0031646	positive regulation of neurological system process	0.978564192	1.098349295
GO:0009066	aspartate family amino acid metabolic process	0.978529813	1.098419249
GO:0021587	cerebellum morphogenesis	0.978526735	1.098500896
GO:0051349	positive regulation of lyase activity	0.978524481	1.098586449
GO:0060441	epithelial tube branching involved in lung morphogenesis	0.978485791	1.098636965
MP:0004921	decreased placenta weight	0.978465681	1.09868749
ENSG00000071994	PDCD2 subnetwork	0.488655815	1.098698828
GO:0032637	interleukin-8 production	0.488600885	1.098729072
GO:0030177	positive regulation of Wnt receptor signaling pathway	0.978430584	1.098734128
MP:0001436	abnormal suckling behavior	0.97831759	1.098753409
MP:0001274	curly vibrissae	0.488775299	1.098790323
GO:0042312	regulation of vasodilation	0.978418411	1.098800249
GO:0045446	endothelial cell differentiation	0.978229273	1.098827242
ENSG00000168487	BMP1 subnetwork	0.488837439	1.098836148
ENSG00000049540	ELN subnetwork	0.978316569	1.098839021
ENSG00000184481	FOXO4 subnetwork	0.488577308	1.098858274
MP:0011386	increased metanephric mesenchyme apoptosis	0.978222005	1.098905081
ENSG00000169139	UBE2V2 subnetwork	0.978216961	1.098990726

ENSG00000084733	RAB10 subnetwork	0.978210134	1.099068589
GO:0061387	regulation of extent of cell growth	0.978189799	1.09913867
ENSG00000108010	GLRX3 subnetwork	0.978183075	1.09921266
ENSG00000126803	HSPA2 subnetwork	0.489096381	1.099224217
GO:0050839	cell adhesion molecule binding	0.978071169	1.099263215
MP:0003313	abnormal locomotor activation	0.978175533	1.099294457
GO:0016337	cell-cell adhesion	0.978049321	1.099341131
GO:0051015	actin filament binding	0.977850224	1.099348776
GO:0045746	negative regulation of Notch signaling pathway	0.977986475	1.099364473
ENSG00000099937	SERPIND1 subnetwork	0.97794345	1.099395617
REACTOME_RECRUITMENT_OF_N	REACTOME_RECRUITMENT_OF_NUMA_TO_MITOTIC_C	0.977849672	1.099430622
GO:0004889	acetylcholine-activated cation-selective channel activity	0.977794859	1.099481279
GO:0090200	positive regulation of release of cytochrome c from mito	0.977788113	1.099539746
GO:0031114	regulation of microtubule depolymerization	0.977770995	1.099609924
GO:0015874	norepinephrine transport	0.977764393	1.099691816
GO:0031281	positive regulation of cyclase activity	0.97774507	1.099742509
ENSG00000102977	ACD subnetwork	0.489392539	1.099802281
ENSG00000139549	DHH subnetwork	0.489455794	1.099817518
GO:0045762	positive regulation of adenylate cyclase activity	0.97774507	1.099828326
MP:0003954	abnormal Reichert's membrane morphology	0.977739202	1.099906352
GO:0060042	retina morphogenesis in camera-type eye	0.977722453	1.099980489
ENSG00000108264	TADA2A subnetwork	0.490122481	1.1
ENSG00000151743	AMN1 subnetwork	0.489981362	1.100015193
GO:0010771	negative regulation of cell morphogenesis involved in dif	0.489899191	1.100037988
GO:0046785	microtubule polymerization	0.977704912	1.100046831
REACTOME_SEMAPHORIN_INTER	REACTOME_SEMAPHORIN_INTERACTIONS	0.490207713	1.100060744
ENSG00000136450	SRSF1 subnetwork	0.490074188	1.100106334
GO:0048863	stem cell differentiation	0.97770341	1.100132698
ENSG00000137413	TAF8 subnetwork	0.489884699	1.100136778
ENSG00000105379	ETFB subnetwork	0.489648629	1.100136841
GO:0070647	protein modification by small protein conjugation or rem	0.490741685	1.100144136
ENSG00000166595	FAM96B subnetwork	0.489742788	1.100152022
ENSG00000182359	KBTD3 subnetwork	0.490667618	1.100159332
GO:0048593	camera-type eye morphogenesis	0.977480288	1.100160056
MP:0003892	abnormal gastric gland morphology	0.977550622	1.100167851
ENSG00000124783	SSR1 subnetwork	0.977648609	1.100179547
MP:0008235	increased susceptibility to neuronal excitotoxicity	0.977424316	1.100183493
GO:0001076	RNA polymerase II transcription factor binding transcript	0.489845164	1.100235598
MP:0002115	abnormal limb bone morphology	0.97708384	1.10024215
GO:0043526	neuroprotection	0.490471379	1.100242903
GO:0045841	negative regulation of mitotic metaphase/anaphase tran	0.977411349	1.100261596
ENSG00000101189	C20orf20 subnetwork	0.977033716	1.100277322
ENSG00000134371	CDC73 subnetwork	0.977369211	1.100300664
ENSG00000135018	UBQLN1 subnetwork	0.976969418	1.100300781
GO:0016796	exonuclease activity, active with either ribo- or deoxyrib	0.49065573	1.100303536
REACTOME_GRB2_EVENTS_IN_E	REACTOME_GRB2_EVENTS_IN_EGFR_SIGNALING	0.490576607	1.100311172
MP:0008997	increased blood osmolality	0.490420972	1.100334042
ENSG00000152268	ENSG00000152268 subnetwork	0.9773156	1.100335833
GO:0060562	epithelial tube morphogenesis	0.977243659	1.100335859
ENSG00000143382	ADAMTSL4 subnetwork	0.976968561	1.100386749
GO:0060841	venous blood vessel development	0.976946579	1.100441475
MP:0004418	small parietal bone	0.976924237	1.100507932
MP:0009832	abnormal sperm mitochondrial sheath morphology	0.976908685	1.100582213
ENSG00000158022	TRIM63 subnetwork	0.976904477	1.100664322

GO:0016998	cell wall macromolecule catabolic process	0.976847905	1.100687822
GO:0090278	negative regulation of peptide hormone secretion	0.976812233	1.100723052
MP:0001259	abnormal body weight	0.490969151	1.100743325
ENSG00000141198	TOM1L1 subnetwork	0.976696666	1.100797436
GO:0045723	positive regulation of fatty acid biosynthetic process	0.976793142	1.100801282
GO:0048484	enteric nervous system development	0.976635058	1.100801407
MP:0002100	abnormal tooth morphology	0.976623458	1.100871843
GO:0016208	AMP binding	0.976615928	1.100957929
ENSG00000135828	RNASEL subnetwork	0.976610197	1.101040119
GO:0044042	glucan metabolic process	0.976608018	1.101126232
GO:0006073	cellular glucan metabolic process	0.976608018	1.101212358
MP:0000857	abnormal cerebellar foliation	0.976603467	1.101294587
GO:0008484	sulfuric ester hydrolase activity	0.976597663	1.101376829
REACTOME_POST:TRANSLATION/	REACTOME_POST:TRANSLATIONAL_MODIFICATION_SY	0.491557337	1.101387204
ENSG00000166848	TERF2IP subnetwork	0.491619412	1.101394573
MP:0005450	abnormal energy expenditure	0.976591081	1.101459083
MP:0009661	abnormal pregnancy	0.491460874	1.101478617
ENSG00000177542	SLC25A22 subnetwork	0.976581919	1.101537438
MP:0009885	abnormal palatal shelf elevation	0.491545834	1.101539045
GO:0005085	guanyl-nucleotide exchange factor activity	0.493332134	1.101556126
ENSG00000100167	SEPT3 subnetwork	0.976541341	1.101576682
ENSG00000170004	CHD3 subnetwork	0.491441319	1.101585014
GO:0005100	Rho GTPase activator activity	0.493508541	1.101600967
GO:0048024	regulation of nuclear mRNA splicing, via spliceosome	0.976524775	1.101647234
GO:0033143	regulation of intracellular steroid hormone receptor sign	0.493482034	1.101691843
ENSG00000174243	DDX23 subnetwork	0.493319185	1.101699909
ENSG00000033011	ALG1 subnetwork	0.97652064	1.101729535
GO:0032456	endocytic recycling	0.493269465	1.101745504
ENSG00000186395	KRT10 subnetwork	0.493213581	1.101753325
GO:0043433	negative regulation of sequence-specific DNA binding tra	0.491860769	1.101795999
REACTOME_GLUCAGON_SIGNALI	REACTOME_GLUCAGON_SIGNALING_IN_METABOLIC_RE	0.976517357	1.101815763
GO:0055038	recycling endosome membrane	0.491971539	1.101863919
GO:0045773	positive regulation of axon extension	0.976478026	1.101866781
ENSG00000063322	MED29 subnetwork	0.493197196	1.101904762
ENSG00000124164	VAPB subnetwork	0.49273513	1.101936753
ENSG00000161202	DVL3 subnetwork	0.976472429	1.101945205
ENSG00000114742	WDR48 subnetwork	0.493121792	1.101965528
ENSG00000100522	GNPNAT1 subnetwork	0.492597895	1.101997881
GO:0031346	positive regulation of cell projection organization	0.97637092	1.102012057
GO:0007213	G-protein coupled acetylcholine receptor signaling pathv	0.976469953	1.102023642
GO:0048844	artery morphogenesis	0.976290981	1.102027873
GO:0010821	regulation of mitochondrion organization	0.976235497	1.102035863
ENSG00000145736	GTF2H2 subnetwork	0.492532162	1.102051166
ENSG00000072133	RPS6KA6 subnetwork	0.492705297	1.102058111
GO:0016311	dephosphorylation	0.492480401	1.102089326
GO:0051183	vitamin transporter activity	0.976194956	1.102094753
GO:0032461	positive regulation of protein oligomerization	0.493855661	1.102106296
ENSG00000173207	CKS1B subnetwork	0.493116074	1.102124603
ENSG00000070367	EXOC5 subnetwork	0.492414114	1.102142641
GO:0060828	regulation of canonical Wnt receptor signaling pathway	0.976184708	1.102165401
REACTOME_EGFR_DOWNREGULA	REACTOME_EGFR_DOWNREGULATION	0.493036927	1.102170296
ENSG00000104419	NDRG1 subnetwork	0.493823963	1.102204772
ENSG00000002822	MAD1L1 subnetwork	0.976064095	1.102204903
GO:0019897	extrinsic to plasma membrane	0.97615768	1.102216479

ENSG00000181467	RAP2B subnetwork	0.492906439	1.102239032
ENSG00000055957	ITIH1 subnetwork	0.492319482	1.102256892
GO:0051301	cell division	0.976039982	1.102271659
ENSG00000150347	ARID5B subnetwork	0.492398943	1.102286839
GO:0009880	embryonic pattern specification	0.975980682	1.102287505
GO:0031514	motile cilium	0.493019103	1.102306761
ENSG00000130787	HIP1R subnetwork	0.49218684	1.102310606
ENSG00000171549	ENSG00000171549 subnetwork	0.975969108	1.10235036
ENSG00000164091	WDR82 subnetwork	0.492288201	1.102355704
ENSG00000182520	ENSG00000182520 subnetwork	0.975969108	1.102436731
GO:0030509	BMP signaling pathway	0.975955474	1.10249569
GO:0001832	blastocyst growth	0.975898514	1.102515477
ENSG00000114354	TFG subnetwork	0.494216826	1.102535849
GO:0097031	mitochondrial respiratory chain complex I biogenesis	0.975890377	1.102594044
ENSG00000092531	SNAP23 subnetwork	0.494196297	1.102641908
GO:0010257	NADH dehydrogenase complex assembly	0.975890377	1.102680461
MP:0001402	hypoactivity	0.975727997	1.102739887
GO:0032981	mitochondrial respiratory chain complex I assembly	0.975890377	1.102766891
GO:0033189	response to vitamin A	0.975677189	1.102791062
GO:0014704	intercalated disc	0.975888263	1.102849416
GO:0009435	NAD biosynthetic process	0.97566839	1.102877529
MP:0005298	abnormal clavicle morphology	0.975662813	1.102960088
ENSG00000172660	TAF15 subnetwork	0.494495001	1.103018412
ENSG00000120860	CCDC53 subnetwork	0.975654979	1.103034818
ENSG00000186847	KRT14 subnetwork	0.494740147	1.103069845
GO:0050821	protein stabilization	0.494682848	1.103092939
ENSG00000112739	PRPF4B subnetwork	0.975649665	1.103117403
REACTOME_Glutathione_Synt	REACTOME_Glutathione_Synthesis_and_Recycling	0.975632668	1.103156863
GO:0005859	muscle myosin complex	0.975555317	1.103168876
GO:0042491	auditory receptor cell differentiation	0.975482271	1.103204424
ENSG00000166579	NDEL1 subnetwork	0.975293871	1.10323264
MP:0000441	increased cranium width	0.494680017	1.103251848
GO:0032481	positive regulation of type I interferon production	0.97547668	1.103287048
GO:0010639	negative regulation of organelle organization	0.975267699	1.103287822
ENSG00000166603	MC4R subnetwork	0.975433923	1.103334379
GO:0015298	solute:cation antiporter activity	0.975232998	1.103339088
MP:0004359	short ulna	0.975214933	1.103413907
ENSG00000109501	WFS1 subnetwork	0.494965518	1.103431373
REACTOME_Regulation_of_Mi	REACTOME_Regulation_of_Mitotic_Cell_Cycle	0.975196981	1.103476964
REACTOME_Apcc:Mediated_De	REACTOME_Apcc:Mediated_Degradation_of_Cell	0.975196981	1.103563579
ENSG00000104643	MTMR9 subnetwork	0.975191924	1.103642358
ENSG00000104388	RAB2A subnetwork	0.975158384	1.103685822
GO:0046879	hormone secretion	0.975089443	1.103686111
ENSG00000158301	GPRASP2 subnetwork	0.975049663	1.103698178
GO:0018214	protein carboxylation	0.495307976	1.103701191
ENSG00000144381	HSPD1 subnetwork	0.495974216	1.103734377
ENSG00000119729	RHOQ subnetwork	0.495188633	1.103740009
REACTOME_AutoDegradation	REACTOME_AutoDegradation_of_CDH1_by_CDH1A	0.97502678	1.103765214
MP:0004310	small otic vesicle	0.97494975	1.103800848
MP:0004742	abnormal vestibular system physiology	0.495942742	1.103862952
GO:0017187	peptidyl-glutamic acid carboxylation	0.495307976	1.103867612
GO:0045667	regulation of osteoblast differentiation	0.974941773	1.10388361
GO:0070491	repressing transcription factor binding	0.495891442	1.103923784
MP:0002069	abnormal eating/drinking behavior	0.974909007	1.103927113

GO:0044259	multicellular organismal macromolecule metabolic process	0.495849054	1.10393944
GO:0000930	gamma-tubulin complex	0.974842257	1.103950986
MP:0004025	polyploidy	0.495655048	1.1039789
GO:0035051	cardiac cell differentiation	0.974799239	1.103998429
MP:0004008	abnormal GABA-mediated receptor currents	0.97475066	1.104038023
GO:0004629	phospholipase C activity	0.974675331	1.104042269
ENSG00000105723	GSK3A subnetwork	0.495826569	1.104045502
ENSG00000171401	KRT13 subnetwork	0.495629275	1.104085017
GO:0010324	membrane invagination	0.974654293	1.104109374
ENSG00000108296	CWC25 subnetwork	0.495793335	1.104151597
GO:0006897	endocytosis	0.974654293	1.104196134
GO:0005977	glycogen metabolic process	0.974626054	1.104247544
ENSG00000161542	PRPSAP1 subnetwork	0.496297775	1.104260765
ENSG00000151617	EDNRA subnetwork	0.974625721	1.104334329
MP:0008789	abnormal olfactory epithelium morphology	0.974614138	1.104413267
ENSG00000164506	STXBP5 subnetwork	0.496434351	1.104418185
ENSG00000105443	CYTH2 subnetwork	0.974569866	1.104452916
ENSG00000147852	VLDLR subnetwork	0.974555027	1.104516154
GO:0003179	heart valve morphogenesis	0.974494195	1.104540094
MP:0004769	abnormal synaptic vesicle morphology	0.97447745	1.10460728
ENSG00000082458	DLG3 subnetwork	0.97446057	1.104678409
ENSG00000130724	CHMP2A subnetwork	0.974429067	1.104714162
GO:0009914	hormone transport	0.974403173	1.10478531
GO:0032465	regulation of cytokinesis	0.974395381	1.104860401
MP:0004770	abnormal synaptic vesicle recycling	0.974375621	1.104931571
MP:0004016	decreased bone mass	0.496732902	1.104951836
ENSG00000127993	RBM48 subnetwork	0.97431414	1.104987021
ENSG00000076864	RAP1GAP subnetwork	0.974275535	1.10501888
REACTOME_APCCDC20_MEDIATED_DEGRADATION_OF	REACTOME_APCCDC20_MEDIATED_DEGRADATION_OF	0.974262054	1.105097947
KEGG_BIOSYNTHESIS_OF_UNSATURATED_FATTY_ACIDS	KEGG_BIOSYNTHESIS_OF_UNSATURATED_FATTY_ACIDS	0.974211334	1.105141621
MP:0004184	abnormal baroreceptor physiology	0.496954031	1.105153476
ENSG00000008869	HEATR5B subnetwork	0.974183245	1.105204973
MP:0008587	short photoreceptor outer segment	0.496912956	1.105206922
REACTOME_ACTIVATION_OF_APCC_AND_APCCDC20_I	REACTOME_ACTIVATION_OF_APCC_AND_APCCDC20_I	0.974123996	1.105217186
GO:0090100	positive regulation of transmembrane receptor protein signaling	0.974118097	1.105296293
MP:0001008	abnormal sympathetic ganglion morphology	0.974114826	1.105383283
ENSG00000116957	TBCE subnetwork	0.974069305	1.105399449
MP:0006395	abnormal epiphyseal plate morphology	0.974034025	1.105462846
ENSG00000133226	SRRM1 subnetwork	0.497218769	1.105482852
GO:0001525	angiogenesis	0.497147715	1.105513766
ENSG00000164692	COL1A2 subnetwork	0.974030049	1.105545934
REACTOME_APCCDC20_MEDIATED_DEGRADATION_OF	REACTOME_APCCDC20_MEDIATED_DEGRADATION_OF	0.973997464	1.10560148
ENSG00000180616	SSTR2 subnetwork	0.973943269	1.105645225
ENSG00000120658	ENOX1 subnetwork	0.973928194	1.105720472
ENSG00000111358	GTF2H3 subnetwork	0.497935556	1.105731671
ENSG00000109670	FBXW7 subnetwork	0.497909725	1.105762585
ENSG00000125818	PSMF1 subnetwork	0.973916337	1.105795732
ENSG00000129514	FOXA1 subnetwork	0.49769472	1.105825316
GO:0061053	somite development	0.973899553	1.105863128
GO:0010972	negative regulation of G2/M transition of mitotic cell cycle	0.497887087	1.105876165
ENSG00000037042	TUBG2 subnetwork	0.497814634	1.105892079
GO:0060428	lung epithelium development	0.49766225	1.105908886
GO:0030801	positive regulation of cyclic nucleotide metabolic processes	0.973881329	1.105930535
GO:0007052	mitotic spindle organization	0.497598798	1.105932331

GO:0048762	mesenchymal cell differentiation	0.973844698	1.105970384
ENSG00000116903	EXOC8 subnetwork	0.497555579	1.106008422
ENSG00000042832	TG subnetwork	0.973803191	1.106018117
GO:0005793	endoplasmic reticulum-Golgi intermediate compartment	0.973745502	1.106034347
REACTOME_Glutamate_Neurotransmitter_Release	REACTOME_Glutamate_Neurotransmitter_Release	0.9730926	1.106053918
ENSG00000164076	CAMKV subnetwork	0.973694285	1.106078153
ENSG00000170276	ENSG00000170276 subnetwork	0.973069977	1.10611352
GO:0072530	purine-containing compound transmembrane transport	0.973274651	1.106132261
MP:0001386	abnormal maternal nurturing	0.973671839	1.106145604
GO:0048568	embryonic organ development	0.97335888	1.106147541
ENSG00000119318	RAD23B subnetwork	0.973055168	1.106184957
GO:0015802	basic amino acid transport	0.973623879	1.106193365
MP:0002063	abnormal learning/memory/conditioning	0.973595243	1.106241135
ENSG00000171703	TCEA2 subnetwork	0.973053471	1.106272175
ENSG00000072864	NDE1 subnetwork	0.972982413	1.106292383
ENSG00000119929	CUTC subnetwork	0.973583815	1.106316495
ENSG00000167977	KCTD5 subnetwork	0.972971363	1.106359909
GO:0005201	extracellular matrix structural constituent	0.972965584	1.106447161
ENSG00000038274	MAT2B subnetwork	0.97294841	1.106510766
GO:0016247	channel regulator activity	0.972937232	1.1065941
REACTOME_Synthesis_of_Bile_Acids_and_Bile_Salts	REACTOME_Synthesis_of_Bile_Acids_and_Bile_Salts	0.972920767	1.106657727
GO:0019905	syntaxin binding	0.97290455	1.106737141
GO:0051482	elevation of cytosolic calcium ion concentration involved	0.972904517	1.106824458
MP:0003727	abnormal retinal layer morphology	0.972835407	1.106836831
MP:0001440	abnormal grooming behavior	0.972821045	1.106904443
ENSG00000134597	RBMX2 subnetwork	0.498652015	1.10694653
GO:0031225	anchored to membrane	0.972794607	1.106960227
ENSG00000160917	CPSF4 subnetwork	0.498855306	1.106996997
GO:0031577	spindle checkpoint	0.972770482	1.107019967
ENSG00000105926	MPP6 subnetwork	0.498634834	1.107097792
GO:0010833	telomere maintenance via telomere lengthening	0.498791881	1.107103169
MP:0003733	abnormal retinal inner nuclear layer morphology	0.972760028	1.107103394
MP:0009454	impaired contextual conditioning behavior	0.972746843	1.107178941
ENSG00000034053	APBA2 subnetwork	0.972706617	1.107218977
ENSG00000076554	TPD52 subnetwork	0.972673304	1.107262967
GO:0034035	purine ribonucleoside bisphosphate metabolic process	0.972660306	1.107342492
GO:0050427	3'-phosphoadenosine 5'-phosphosulfate metabolic process	0.972660306	1.107429925
GO:0005545	1-phosphatidylinositol binding	0.4991882	1.107453836
GO:0009994	oocyte differentiation	0.499481202	1.107516879
GO:0034032	purine nucleoside bisphosphate metabolic process	0.972660306	1.107517372
REACTOME_mRNA_Processing	REACTOME_mRNA_Processing	0.499436858	1.107570528
GO:0009072	aromatic amino acid family metabolic process	0.972534703	1.107577792
GO:0033875	ribonucleoside bisphosphate metabolic process	0.972660306	1.107604833
GO:0042165	neurotransmitter binding	0.972534074	1.107665271
GO:0045682	regulation of epidermis development	0.499424274	1.107684226
GO:0007190	activation of adenylate cyclase activity	0.972526508	1.107736967
GO:0072498	embryonic skeletal joint development	0.97243848	1.107753377
ENSG00000168438	CDC40 subnetwork	0.499652913	1.107763276
REACTOME_Grb2SOS_Provides_Linkage_to_Mapk	REACTOME_Grb2SOS_Provides_Linkage_to_Mapk	0.500059766	1.107772448
MP:0001556	increased circulating HDL cholesterol level	0.499391927	1.107782948
ENSG00000198467	TPM2 subnetwork	0.49974375	1.10779211
GO:0045744	negative regulation of G-protein coupled receptor protein activity	0.972410178	1.107813241
MP:0005352	small cranium	0.972408387	1.107900766
ENSG00000106290	TAF6 subnetwork	0.500048472	1.107923538

ENSG00000163918	RFC4 subnetwork	0.499988249	1.107954716
MP:0005643	decreased dopamine level	0.972378127	1.107972503
ENSG00000188130	MAPK12 subnetwork	0.499939858	1.108015897
GO:0043009	chordate embryonic development	0.972369929	1.108052153
GO:0051238	sequestering of metal ion	0.50033135	1.108062341
ENSG00000115844	DLX2 subnetwork	0.972352492	1.108123913
GO:0016125	sterol metabolic process	0.500298181	1.108153477
REACTOME_METABOLISM_OF_AMINO_ACIDS_AND_DERIVATIVES	REACTOME_METABOLISM_OF_AMINO_ACIDS_AND_DERIVATIVES	0.972132442	1.108205534
GO:0060076	excitatory synapse	0.972344793	1.10820754
ENSG00000139998	RAB15 subnetwork	0.971944115	1.108211434
ENSG00000143499	SMYD2 subnetwork	0.971866173	1.108212083
GO:0090090	negative regulation of canonical Wnt receptor signaling pathway	0.972278708	1.1082319
MP:0000120	malocclusion	0.972091936	1.108253617
ENSG00000171848	RRM2 subnetwork	0.500572478	1.108254682
GO:0005775	vacuolar lumen	0.500643827	1.108275914
MP:0002745	abnormal atrioventricular valve morphology	0.972266192	1.108276026
GO:0008088	axon cargo transport	0.972052876	1.108297755
MP:0000967	abnormal sensory neuron projections	0.971866014	1.108299723
REACTOME_GLYCINE_METABOLISM	REACTOME_GLYCINE_METABOLISM	0.971825617	1.108351787
REACTOME_ABCA_TRANSPORTER_ACTIVITY	REACTOME_ABCA_TRANSPORTERS_IN_LIPID_HOMEOSTASIS	0.50057156	1.108420737
ENSG00000111344	RASAL1 subnetwork	0.971812276	1.108431543
MP:0008406	increased cellular sensitivity to hydrogen peroxide	0.971772313	1.108455941
ENSG00000196285	ENSG00000196285 subnetwork	0.5014156	1.108466717
ENSG00000004948	CALCR subnetwork	0.50092793	1.108542977
ENSG00000163875	MEAF6 subnetwork	0.971767232	1.108543628
ENSG00000119917	IFIT3 subnetwork	0.501677417	1.108567584
ENSG00000129675	ARHGEF6 subnetwork	0.500887439	1.108589187
GO:0046658	anchored to plasma membrane	0.501014565	1.108594101
MP:0005423	abnormal somatic nervous system physiology	0.971717749	1.108595728
ENSG00000132475	H3F3B subnetwork	0.5014156	1.108632555
ENSG00000135409	AMHR2 subnetwork	0.501105314	1.10864521
ENSG00000034693	PEX3 subnetwork	0.502212528	1.108649537
GO:0006085	acetyl-CoA biosynthetic process	0.502470593	1.108674231
ENSG00000138778	CENPE subnetwork	0.97171247	1.108679484
GO:0033631	cell-cell adhesion mediated by integrin	0.502101839	1.108711895
GO:0003906	DNA-(apurinic or apyrimidinic site) lyase activity	0.501675872	1.108718409
ENSG00000188994	ZNF292 subnetwork	0.502298264	1.108730396
GO:0005773	vacuole	0.971711197	1.10876721
ENSG00000163041	H3F3A subnetwork	0.5014156	1.108798444
ENSG00000108848	LUC7L3 subnetwork	0.502458738	1.108809915
ENSG00000196584	XRCC2 subnetwork	0.502211211	1.10881518
MP:0004358	bowed tibia	0.501641584	1.108824409
ENSG00000110169	HPX subnetwork	0.501974995	1.108826607
ENSG00000113645	WWC1 subnetwork	0.97169139	1.10883121
MP:0000521	abnormal kidney cortex morphology	0.502061103	1.10883276
ENSG00000172379	ARNT2 subnetwork	0.501360563	1.10885214
ENSG00000133316	WDR74 subnetwork	0.502412366	1.108885902
GO:0048332	mesoderm morphogenesis	0.501300468	1.108898369
REACTOME_GLYCOGEN_BREAKDOWN	REACTOME_GLYCOGEN_BREAKDOWN_GLYCOGENOLYSIS	0.971673913	1.108899177
ENSG00000153395	LPCAT1 subnetwork	0.501940397	1.108910151
MP:0003072	abnormal metatarsal bone morphology	0.971651663	1.108963197
ENSG00000101365	IDH3B subnetwork	0.971632376	1.109031186
GO:0007040	lysosome organization	0.971604185	1.109079395
ENSG00000127946	HIP1 subnetwork	0.971525243	1.109099905

MP:0004859	abnormal synaptic plasticity	0.97150835	1.10916792
MP:0002781	increased circulating testosterone level	0.502794048	1.109186567
GO:0051781	positive regulation of cell division	0.502979721	1.109198747
ENSG00000069011	PITX1 subnetwork	0.971507212	1.10925574
REACTOME_P38MAPK_EVENTS	REACTOME_P38MAPK_EVENTS	0.502778566	1.109292432
MP:0002572	abnormal emotion/affect behavior	0.971480553	1.109311901
ENSG00000173598	NUDT4 subnetwork	0.502949479	1.109312043
GO:0051093	negative regulation of developmental process	0.97146589	1.109387868
GO:0006942	regulation of striated muscle contraction	0.971463062	1.109467807
MP:0001385	pup cannibalization	0.971333226	1.109473267
ENSG00000089199	CHGB subnetwork	0.971445551	1.109527958
GO:0045668	negative regulation of osteoblast differentiation	0.971324171	1.109553232
ENSG00000148943	LIN7C subnetwork	0.971297799	1.109605482
ENSG00000022355	GABRA1 subnetwork	0.971279895	1.109669624
REACTOME_RESOLUTION_OF_AP	REACTOME_RESOLUTION_OF_AP_SITES_VIA_THE_MUL	0.503574431	1.109683912
GO:0071299	cellular response to vitamin A	0.971265241	1.109733777
ENSG00000108001	EBF3 subnetwork	0.503412905	1.109800119
GO:0071300	cellular response to retinoic acid	0.971265241	1.109821712
REACTOME_REMOVAL_OF_DNA	REACTOME_REMOVAL_OF_DNA_PATCH_CONTAINING_	0.503574431	1.109849389
MP:0003849	greasy coat	0.503711635	1.109853906
REACTOME_REGULATION_OF_IN	REACTOME_REGULATION_OF_INSULIN_SECRETION_BY_	0.971237096	1.109881924
ENSG00000132357	CARD6 subnetwork	0.503369786	1.109891094
ENSG00000101811	CSTF2 subnetwork	0.50354846	1.109917972
ENSG00000149970	CNKSR2 subnetwork	0.971078398	1.109919943
REACTOME_BASIGIN_INTERACTIC	REACTOME_BASIGIN_INTERACTIONS	0.971208335	1.109934221
MP:0001777	abnormal body temperature homeostasis	0.971072857	1.109992073
GO:0006283	transcription-coupled nucleotide-excision repair	0.971203231	1.110018229
ENSG00000197451	HNRNPAB subnetwork	0.504373731	1.110020846
ENSG00000079805	DNM2 subnetwork	0.503971654	1.110074516
GO:0048333	mesodermal cell differentiation	0.971062382	1.11008007
GO:0006266	DNA ligation	0.503905054	1.110090923
GO:0006664	glycolipid metabolic process	0.971040352	1.110140331
GO:0030323	respiratory tube development	0.504481839	1.110153342
ENSG00000114982	KANSL3 subnetwork	0.504363086	1.110163812
MP:0002686	globozoospermia	0.504301277	1.110187668
GO:0045981	positive regulation of nucleotide metabolic process	0.971036705	1.110220425
GO:0032967	positive regulation of collagen biosynthetic process	0.504235397	1.110233875
ENSG00000086758	HUWE1 subnetwork	0.505025454	1.110270712
GO:0030574	collagen catabolic process	0.971021189	1.110288637
MP:0003545	increased alcohol consumption	0.970919914	1.110301348
MP:0005459	decreased percent body fat	0.504915604	1.110340723
ENSG00000183785	TUBA8 subnetwork	0.504160741	1.110348681
GO:0030165	PDZ domain binding	0.970891337	1.110361646
GO:0010714	positive regulation of collagen metabolic process	0.504235397	1.110399285
GO:0001726	ruffle	0.504845621	1.110401786
KEGG_O_GLYCAN_BIOSYNTHESIS	KEGG_O_GLYCAN_BIOSYNTHESIS	0.505014836	1.110428444
GO:0021575	hindbrain morphogenesis	0.970882201	1.110445749
GO:0048589	developmental growth	0.970517396	1.110460965
GO:0009950	dorsal/ventral axis specification	0.970710551	1.110467238
ENSG00000115163	CENPA subnetwork	0.97079605	1.110470374
ENSG00000125352	RNF113A subnetwork	0.504826782	1.110514958
MP:0003960	increased lean body mass	0.970693841	1.110539468
GO:0031110	regulation of microtubule polymerization or depolymeriz	0.970511333	1.110549076
MP:0004423	abnormal squamosal bone morphology	0.970486757	1.110633233

ENSG00000168556	ING2 subnetwork	0.504818568	1.110680262
ENSG00000141985	SH3GL1 subnetwork	0.970366429	1.11068254
ENSG00000100505	TRIM9 subnetwork	0.50528761	1.110685604
GO:0060395	SMAD protein signal transduction	0.970451734	1.11068566
GO:0032420	stereocilium	0.970363011	1.110770696
GO:0043300	regulation of leukocyte degranulation	0.970348462	1.110835053
GO:0050766	positive regulation of phagocytosis	0.970323784	1.110895451
ENSG00000123159	GIPC1 subnetwork	0.970299946	1.110971737
GO:0090184	positive regulation of kidney development	0.970281966	1.111024216
GO:0045055	regulated secretory pathway	0.970269313	1.111084643
GO:0031080	Nup107-160 complex	0.970262074	1.111172874
GO:0051491	positive regulation of filopodium assembly	0.505538773	1.111182156
ENSG00000145321	GC subnetwork	0.970223036	1.11122141
ENSG00000102109	PCSK1N subnetwork	0.970188971	1.111285839
KEGG_PENTOSE_AND_GLUCURONATE_INTERCONVERSION	KEGG_PENTOSE_AND_GLUCURONATE_INTERCONVERSION	0.505667734	1.111351472
ENSG00000116954	RRAGC subnetwork	0.970172256	1.111354249
GO:0030017	sarcomere	0.970142564	1.111402812
REACTOME_SIGNAL_ATTENUATION	REACTOME_SIGNAL_ATTENUATION	0.970104222	1.111423578
REACTOME_MITOCHONDRIAL_FATTY_ACID_BETA_OXIDATION	REACTOME_MITOCHONDRIAL_FATTY_ACID_BETA_OXIDATION	0.970084657	1.111495988
ENSG00000139116	KIF21A subnetwork	0.970064273	1.111568409
ENSG00000115507	OTX1 subnetwork	0.970026567	1.111605085
ENSG00000182901	RGS7 subnetwork	0.96999302	1.111645741
ENSG00000181072	CHRM2 subnetwork	0.969969412	1.11170627
GO:0017136	NAD-dependent histone deacetylase activity	0.96991968	1.11176681
GO:0034979	NAD-dependent protein deacetylase activity	0.96991968	1.111855178
ENSG00000179041	RRS1 subnetwork	0.508837636	1.111873799
GO:0009792	embryo development ending in birth or egg hatching	0.969894374	1.111911765
GO:0000149	SNARE binding	0.969808927	1.111912712
ENSG00000184408	KCND2 subnetwork	0.969633161	1.111971215
GO:0000070	mitotic sister chromatid segregation	0.969779676	1.111977262
ENSG00000100380	ST13 subnetwork	0.969610419	1.112011928
MP:0004613	fusion of vertebral arches	0.969451052	1.112013839
ENSG00000136999	NOV subnetwork	0.508825152	1.112015962
MP:0008877	abnormal DNA methylation	0.969744772	1.112021945
KEGG_GLYCOSAMINOGLYCAN_DEGRADATION	KEGG_GLYCOSAMINOGLYCAN_DEGRADATION	0.969344307	1.112075412
GO:0046519	sphingoid metabolic process	0.969606182	1.112080484
GO:0006536	glutamate metabolic process	0.969443679	1.112102291
ENSG00000173991	TCAP subnetwork	0.508804179	1.11210643
MP:0000343	altered response to myocardial infarction	0.509066185	1.112106663
GO:0001676	long-chain fatty acid metabolic process	0.969316684	1.11213206
ENSG00000087903	RFX2 subnetwork	0.506416838	1.112149116
MP:0003071	decreased vascular permeability	0.508771022	1.112167357
ENSG00000189308	LIN54 subnetwork	0.508727699	1.112176549
MP:0010029	abnormal basicranium morphology	0.969271898	1.11218474
ENSG00000158486	DNAH3 subnetwork	0.50904983	1.112211879
ENSG00000100813	ACIN1 subnetwork	0.50638244	1.112240048
MP:0004395	increased cochlear inner hair cell number	0.969254759	1.112249363
GO:0003081	regulation of systemic arterial blood pressure by renin-angiotensin system	0.969213955	1.112310018
ENSG00000206502	ZNRD1 subnetwork	0.508726893	1.112333629
ENSG00000172380	GNG12 subnetwork	0.506374259	1.112383004
GO:0016616	oxidoreductase activity, acting on the CH-OH group of donors	0.506596514	1.112384912
ENSG00000159164	SV2A subnetwork	0.969210319	1.112398536
GO:0022010	central nervous system myelination	0.506325657	1.112444279
ENSG00000180914	OXTR subnetwork	0.969199341	1.112463191

ENSG00000206429	ENSG00000206429 subnetwork	0.508726893	1.112498151
ENSG00000182580	EPHB3 subnetwork	0.508556897	1.112509247
GO:0046939	nucleotide phosphorylation	0.508268476	1.112531458
GO:0060065	uterus development	0.5081849	1.112533314
GO:0006687	glycosphingolipid metabolic process	0.96918937	1.112543776
GO:0017137	Rab GTPase binding	0.508490753	1.11255549
GO:0034062	RNA polymerase activity	0.508077058	1.112559242
MP:0006279	abnormal limb development	0.969052709	1.112565674
GO:0000578	embryonic axis specification	0.969147778	1.112588554
ENSG00000149257	SERPINH1 subnetwork	0.506780184	1.112590943
GO:0017048	Rho GTPase binding	0.507767459	1.112603734
GO:0032291	axon ensheathment in central nervous system	0.506325657	1.1126096
ENSG00000130725	UBE2M subnetwork	0.507917244	1.112614815
ENSG00000164815	ORC5 subnetwork	0.969017742	1.112618422
MP:0000350	abnormal cell proliferation	0.506225496	1.112657946
ENSG00000112941	PAPD7 subnetwork	0.508457643	1.112660944
ENSG00000066379	ZNRD1 subnetwork	0.508726893	1.112662722
ENSG00000105705	SUGP1 subnetwork	0.508176998	1.112675848
GO:0030593	neutrophil chemotaxis	0.507862164	1.112690769
ENSG00000114854	TNNC1 subnetwork	0.968998897	1.112699045
MP:0001005	abnormal retinal rod cell morphology	0.507752542	1.112709352
GO:0003899	DNA-directed RNA polymerase activity	0.508077058	1.112724041
ENSG00000143748	NVL subnetwork	0.506308867	1.112752675
MP:0010701	fusion of atlas and odontoid process	0.507665375	1.112755707
ENSG00000198062	POTEH subnetwork	0.508423921	1.112759029
ENSG00000164494	PDSS2 subnetwork	0.968982369	1.112767736
GO:0035065	regulation of histone acetylation	0.968610652	1.112805704
ENSG00000182400	TRAPPC6B subnetwork	0.507608529	1.112809489
MP:0008450	retinal photoreceptor degeneration	0.968965032	1.112824494
GO:0031060	regulation of histone methylation	0.509500811	1.112843427
ENSG00000188223	LIN37 subnetwork	0.507561566	1.112855872
ENSG00000155868	MED7 subnetwork	0.507148792	1.112859899
ENSG00000128534	NAA38 subnetwork	0.968598233	1.112882409
GO:0051216	cartilage development	0.96895607	1.112901171
ENSG00000186340	THBS2 subnetwork	0.507441704	1.112904183
GO:0005385	zinc ion transmembrane transporter activity	0.507067834	1.112906338
ENSG00000107281	NPDC1 subnetwork	0.507383768	1.112920932
GO:0030324	lung development	0.507510106	1.112931929
GO:0000146	microfilament motor activity	0.96891943	1.11294202
GO:0031672	A band	0.968586779	1.112967094
ENSG00000109107	ALDOC subnetwork	0.968803032	1.112971961
GO:0014812	muscle cell migration	0.507035502	1.112975059
ENSG00000044115	CTNNA1 subnetwork	0.968894992	1.112998805
MP:0001529	abnormal vocalization	0.968560339	1.113003984
ENSG00000180370	PAK2 subnetwork	0.507357141	1.113004451
GO:0007026	negative regulation of microtubule depolymerization	0.968531186	1.113064786
ENSG00000170542	SERPINB9 subnetwork	0.50734427	1.113139932
ENSG00000178999	AURKB subnetwork	0.968512953	1.113141536
GO:0051640	organelle localization	0.968510345	1.113226269
ENSG00000102218	RP2 subnetwork	0.968508334	1.113315001
REACTOME_CALNEXINCALRETICULIN_CYCLE	REACTOME_CALNEXINCALRETICULIN_CYCLE	0.968446274	1.113316062
ENSG00000144191	CNGA3 subnetwork	0.968440079	1.113396843
GO:0000910	cytokinesis	0.968409747	1.113449733
GO:0044062	regulation of excretion	0.96838755	1.113522564

GO:0001503	ossification	0.96830531	1.113527629
GO:0044275	cellular carbohydrate catabolic process	0.968303854	1.113616427
GO:0045111	intermediate filament cytoskeleton	0.968274625	1.113669352
MP:0001721	absent visceral yolk sac blood islands	0.51016107	1.113716226
ENSG00000149968	MMP3 subnetwork	0.510005376	1.113727662
REACTOME_INTRINSIC_PATHWAY	REACTOME_INTRINSIC_PATHWAY	0.968260626	1.113742224
MP:0008288	abnormal adrenal cortex morphology	0.968243756	1.113803143
REACTOME_TRANSCRIPTION_OF_	REACTOME_TRANSCRIPTION_OF_THE_HIV_GENOME	0.510124842	1.113821618
ENSG00000100650	SRSF5 subnetwork	0.510396094	1.113859779
ENSG00000171723	GPHN subnetwork	0.968227705	1.113864071
ENSG00000164168	TMEM184C subnetwork	0.968183284	1.113881133
ENSG00000154473	BUB3 subnetwork	0.96818022	1.113970002
ENSG00000102003	SYP subnetwork	0.510372471	1.114016829
REACTOME_APOPTOTIC_CLEAVAGE_OF_	REACTOME_APOPTOTIC_CLEAVAGE_OF_CELLULAR_PRO	0.510585691	1.114032758
MP:0001392	abnormal locomotor behavior	0.968175984	1.114058885
GO:0060348	bone development	0.968153811	1.114143792
GO:0007250	activation of NF-kappaB-inducing kinase activity	0.510570406	1.114160272
GO:0022037	metencephalon development	0.968028766	1.114169992
GO:0050906	detection of stimulus involved in sensory perception	0.968123482	1.114176841
GO:0043299	leukocyte degranulation	0.968021155	1.114258919
MP:0003224	neuron degeneration	0.968014567	1.11434387
GO:0070412	R-SMAD binding	0.511559164	1.114363583
ENSG00000164270	HTR4 subnetwork	0.967959841	1.114376946
ENSG00000150672	DLG2 subnetwork	0.967891616	1.114382085
GO:0072077	renal vesicle morphogenesis	0.967779808	1.114428298
REACTOME_TRANSFERRIN_ENDOCYTOSIS_AND_RECYCLING	REACTOME_TRANSFERRIN_ENDOCYTOSIS_AND_RECYCLING	0.967872283	1.11445509
GO:0046527	glucosyltransferase activity	0.511679742	1.114464575
MP:0011024	abnormal branching involved in lung morphogenesis	0.511541824	1.114490939
GO:0021904	dorsal/ventral neural tube patterning	0.96777528	1.114513296
GO:0030857	negative regulation of epithelial cell differentiation	0.511790686	1.114536082
GO:0048011	nerve growth factor receptor signaling pathway	0.511515596	1.114581491
ENSG00000134365	CFHR4 subnetwork	0.511400721	1.11458364
ENSG00000163810	TGM4 subnetwork	0.96777233	1.1146023
ENSG00000176108	CHMP6 subnetwork	0.511914558	1.11466647
ENSG00000179588	ZFPM1 subnetwork	0.967770741	1.114687325
ENSG00000138795	LEF1 subnetwork	0.511370219	1.114733196
GO:0051602	response to electrical stimulus	0.967756912	1.114768371
MP:0001304	cataracts	0.967689418	1.114797508
GO:0014902	myotube differentiation	0.511331982	1.114816453
ENSG00000139220	PPFIA2 subnetwork	0.967676545	1.114870586
ENSG00000087338	GMCL1 subnetwork	0.512122524	1.114877797
GO:0060350	endochondral bone morphogenesis	0.967676225	1.11495566
GO:0045806	negative regulation of endocytosis	0.511067354	1.114960165
GO:0003755	peptidyl-prolyl cis-trans isomerase activity	0.511202684	1.114970501
ENSG00000161638	ITGA5 subnetwork	0.511330609	1.114973459
ENSG00000164885	CDK5 subnetwork	0.967660801	1.115032758
MP:0006054	spinal hemorrhage	0.511285886	1.115042029
MP:0005619	increased urine potassium level	0.511167565	1.115061218
ENSG00000114978	MOB1A subnetwork	0.512265125	1.115066981
GO:0009309	amine biosynthetic process	0.967644804	1.115097883
ENSG00000047056	WDR37 subnetwork	0.967639999	1.115179
GO:0002474	antigen processing and presentation of peptide antigen	0.96763054	1.115252138
GO:0007606	sensory perception of chemical stimulus	0.967607988	1.115321292
ENSG00000132639	SNAP25 subnetwork	0.967568238	1.115354488

GO:0012507	ER to Golgi transport vesicle membrane	0.512557993	1.11535688
ENSG00000176986	SEC24C subnetwork	0.967461342	1.115412903
ENSG00000124610	HIST1H1A subnetwork	0.967554004	1.115435651
ENSG00000183873	SCN5A subnetwork	0.512518619	1.115462173
GO:0030804	positive regulation of cyclic nucleotide biosynthetic proc	0.967449488	1.115482091
ENSG00000206282	RGL2 subnetwork	0.967228531	1.115555022
GO:0030810	positive regulation of nucleotide biosynthetic process	0.967449488	1.11557128
MP:0008519	thin retinal outer plexiform layer	0.967360351	1.115601759
ENSG00000111275	ALDH2 subnetwork	0.967422355	1.11560451
ENSG00000206210	ENSG00000206210 subnetwork	0.967228531	1.115644245
GO:0072087	renal vesicle development	0.967198922	1.115713486
ENSG00000100325	ASCC2 subnetwork	0.967070936	1.115744
ENSG00000186051	TAL2 subnetwork	0.96717715	1.115786737
MP:0000623	decreased salivation	0.967062119	1.115817265
MP:0005574	decreased pulmonary respiratory rate	0.966955037	1.115830533
MP:0008415	abnormal neurite morphology	0.966931358	1.115887813
ENSG00000109911	ELP4 subnetwork	0.966881631	1.115917093
GO:0044291	cell-cell contact zone	0.966870452	1.115990396
ENSG00000138411	HECW2 subnetwork	0.966847941	1.116035697
MP:0003384	abnormal ventral body wall morphology	0.966786248	1.116040983
ENSG00000142871	CYR61 subnetwork	0.966766594	1.116110311
MP:0002064	seizures	0.966667094	1.116160929
ENSG00000116750	UCHL5 subnetwork	0.966746619	1.116171644
ENSG00000053918	KCNQ1 subnetwork	0.96635557	1.116182124
GO:0070972	protein localization in endoplasmic reticulum	0.966628589	1.116198254
REACTOME_ACTIVATION_OF_CH/REACTOME_ACTIVATION_OF_CHAPERONE_GENES_BY_X		0.966585797	1.116251602
GO:0006754	ATP biosynthetic process	0.966350438	1.116263516
GO:0060572	morphogenesis of an epithelial bud	0.966525894	1.116284936
GO:0035383	thioester metabolic process	0.966341233	1.116348927
GO:0006637	acyl-CoA metabolic process	0.966341233	1.116438356
GO:0015450	P-P-bond-hydrolysis-driven protein transmembrane tran	0.966292255	1.11645169
ENSG00000214655	KIAA0913 subnetwork	0.966246127	1.116497076
GO:0051320	S phase	0.966136746	1.11653578
ENSG00000188312	CENPP subnetwork	0.966080487	1.116553134
GO:0042354	L-fucose metabolic process	0.966011281	1.116558468
GO:0033267	axon part	0.966224076	1.116574519
GO:0042772	DNA damage response, signal transduction resulting in tr	0.965990163	1.11661991
GO:0003281	ventricular septum development	0.965945783	1.116681363
GO:0046887	positive regulation of hormone secretion	0.965943985	1.116770883
ENSG00000129990	SYT5 subnetwork	0.965732935	1.116782936
ENSG00000211895	ENSG00000211895 subnetwork	0.965911388	1.116836367
GO:0051494	negative regulation of cytoskeleton organization	0.965699286	1.116844427
ENSG00000170734	POLH subnetwork	0.965843477	1.116869788
GO:0006767	water-soluble vitamin metabolic process	0.965660308	1.116901917
GO:0032728	positive regulation of interferon-beta production	0.965609844	1.116915303
REACTOME_DEPOSITION_OF_NE/REACTOME_DEPOSITION_OF_NEW_CENPA:CONTAININC		0.965579184	1.11698484
REACTOME_NUCLEOSOME_ASSE/REACTOME_NUCLEOSOME_ASSEMBLY		0.965579184	1.117074442
MP:0008584	photoreceptor outer segment degeneration	0.513478804	1.117090936
GO:0007029	endoplasmic reticulum organization	0.965522999	1.117107902
MP:0004704	short vertebral column	0.965501852	1.117177471
GO:0042277	peptide binding	0.513626623	1.117213477
MP:0008725	enlarged heart atrium	0.965337378	1.117221732
GO:0031581	hemidesmosome assembly	0.965469373	1.117231004
ENSG00000139197	PEX5 subnetwork	0.965302001	1.117247191

MP:0003698	abnormal male reproductive system physiology	0.965433464	1.117268496
GO:0003254	regulation of membrane depolarization	0.965260077	1.117296733
GO:0005801	cis-Golgi network	0.965253949	1.117382405
ENSG00000128595	CALU subnetwork	0.965097827	1.11743878
ENSG00000130164	LDLR subnetwork	0.965242435	1.11746809
REACTOME_POSTSYNAPTIC_NICO	REACTOME_POSTSYNAPTIC_NICOTINIC_ACETYLCHOLINE	0.965076464	1.117496387
ENSG00000141552	ANAPC11 subnetwork	0.965217882	1.117521676
ENSG00000165417	GTF2A1 subnetwork	0.514492389	1.117550691
REACTOME_ACTIVATION_OF_NIC	REACTOME_ACTIVATION_OF_NICOTINIC_ACETYLCHOLIN	0.965076464	1.117586124
GO:0005770	late endosome	0.514703873	1.117641011
ENSG00000112159	MDN1 subnetwork	0.51447048	1.117663483
REACTOME_ACETYLCHOLINE_BIN	REACTOME_ACETYLCHOLINE_BINDING_AND_DOWNSTR	0.965076464	1.117675875
ENSG00000140416	TPM1 subnetwork	0.514644064	1.117680329
GO:0004576	oligosaccharyl transferase activity	0.965061886	1.117753594
GO:0032535	regulation of cellular component size	0.514425424	1.117761611
ENSG00000160783	PMF1 subnetwork	0.964953707	1.117804643
GO:0006656	phosphatidylcholine biosynthetic process	0.965055892	1.117835341
GO:0002438	acute inflammatory response to antigenic stimulus	0.964892153	1.117842224
ENSG00000119866	BCL11A subnetwork	0.514121982	1.117860294
GO:0043034	costamere	0.514406311	1.117911216
ENSG00000165178	ENSG00000165178 subnetwork	0.514061043	1.117914399
ENSG00000115128	ENSG00000115128 subnetwork	0.51433309	1.1179212
GO:0060351	cartilage development involved in endochondral bone m	0.964884031	1.117932032
ENSG00000099810	MTAP subnetwork	0.513996063	1.1179391
ENSG00000107282	APBA1 subnetwork	0.964877692	1.11801382
ENSG00000068654	POLR1A subnetwork	0.514305191	1.118041464
ENSG00000176788	BASP1 subnetwork	0.9648554	1.11807955
MP:0001156	abnormal spermatogenesis	0.515209488	1.118103069
GO:0002792	negative regulation of peptide secretion	0.964843998	1.118153327
ENSG00000112992	NNT subnetwork	0.515145406	1.118157122
REACTOME_NUCLEAR_SIGNALINC	REACTOME_NUCLEAR_SIGNALING_BY_ERBB4	0.515079478	1.118211191
GO:0050994	regulation of lipid catabolic process	0.964833462	1.118235152
ENSG00000169067	ACTBL2 subnetwork	0.515685467	1.118243838
MP:0001422	abnormal drinking behavior	0.515595668	1.118246515
GO:0035112	genitalia morphogenesis	0.51580789	1.118277835
GO:0006878	cellular copper ion homeostasis	0.515545081	1.118278544
MP:0000520	absent kidney	0.964819654	1.118308954
ENSG00000124688	MAD2L1BP subnetwork	0.964782732	1.118346596
GO:0090263	positive regulation of canonical Wnt receptor signaling p	0.964569197	1.11839926
GO:0003382	epithelial cell morphogenesis	0.964683893	1.118421899
GO:0032400	melanosome localization	0.964767	1.118424437
ENSG00000169249	ZRSR2 subnetwork	0.515537275	1.118428005
GO:0007094	mitotic cell cycle spindle assembly checkpoint	0.964554843	1.118485165
ENSG00000185624	P4HB subnetwork	0.515497002	1.11848943
ENSG00000166900	STX3 subnetwork	0.964535712	1.118550981
GO:0045725	positive regulation of glycogen biosynthetic process	0.964510114	1.11858464
ENSG00000126215	XRCC3 subnetwork	0.96450796	1.118674602
MP:0003920	abnormal heart right ventricle morphology	0.964462709	1.118720341
ENSG00000162928	PEX13 subnetwork	0.964451867	1.118786197
ENSG00000101751	POLI subnetwork	0.516966285	1.118790275
ENSG00000127884	ECHS1 subnetwork	0.516164202	1.118810502
ENSG00000100162	CENPM subnetwork	0.964408347	1.118819886
ENSG00000047457	CP subnetwork	0.964397757	1.11890185
GO:0014015	positive regulation of gliogenesis	0.964330845	1.118923485

GO:0043506	regulation of JUN kinase activity	0.964252702	1.118941101
ENSG00000198000	NOL8 subnetwork	0.516807426	1.118945055
GO:0010259	multicellular organismal aging	0.517085985	1.118948602
MP:0009429	decreased embryo weight	0.516960716	1.118954153
ENSG00000124228	DDX27 subnetwork	0.516541364	1.118960715
ENSG00000167840	ZNF232 subnetwork	0.516461934	1.118963495
GO:0016859	cis-trans isomerase activity	0.516389508	1.118966276
ENSG00000055609	MLL3 subnetwork	0.516670215	1.118987249
GO:0072341	modified amino acid binding	0.964228311	1.119002977
GO:0004867	serine-type endopeptidase inhibitor activity	0.516767089	1.119065064
ENSG00000124074	C16orf48 subnetwork	0.964217503	1.119072912
REACTOME_CITRIC_ACID_CYCLE_	REACTOME_CITRIC_ACID_CYCLE_TCA_CYCLE	0.516954542	1.119118078
ENSG00000162191	UBXN1 subnetwork	0.516354472	1.119130371
ENSG00000165588	OTX2 subnetwork	0.964213964	1.119158954
GO:0006635	fatty acid beta-oxidation	0.964197773	1.11924501
MP:0003161	absent lateral semicircular canal	0.96414523	1.119278757
ENSG00000180198	RCC1 subnetwork	0.964118722	1.119344711
GO:0051318	G1 phase	0.964023762	1.119370421
REACTOME_INTEGRATION_OF_EN	REACTOME_INTEGRATION_OF_ENERGY_METABOLISM	0.96379442	1.119433035
GO:0004620	phospholipase activity	0.963717191	1.119442655
GO:0007263	nitric oxide mediated signal transduction	0.964008775	1.119444444
GO:0060536	cartilage morphogenesis	0.963970006	1.119490297
ENSG00000110148	CCKBR subnetwork	0.963713823	1.119524768
MP:0008511	thin retinal inner nuclear layer	0.963929938	1.119560316
GO:0016846	carbon-sulfur lyase activity	0.963682317	1.119594812
ENSG00000185049	WHSC2 subnetwork	0.517430464	1.119677892
GO:0015643	toxin binding	0.963681063	1.119685008
GO:0051900	regulation of mitochondrial depolarization	0.963503242	1.11975423
GO:0032862	activation of Rho GTPase activity	0.963671827	1.119771189
GO:0010165	response to X-ray	0.963479523	1.119812233
GO:0001655	urogenital system development	0.517569575	1.119836042
GO:0046470	phosphatidylcholine metabolic process	0.963642547	1.119837241
GO:0003215	cardiac right ventricle morphogenesis	0.963471843	1.119886364
MP:0001362	abnormal anxiety-related response	0.963441074	1.119948416
GO:0071897	DNA biosynthetic process	0.517860892	1.120002927
MP:0000116	abnormal tooth development	0.963420649	1.120018539
ENSG00000198835	GJC2 subnetwork	0.517814994	1.120086346
GO:0070279	vitamin B6 binding	0.963399675	1.120092705
ENSG00000071537	SEL1L subnetwork	0.518135081	1.120103847
ENSG00000100410	PHF5A subnetwork	0.518013264	1.120153621
GO:0030170	pyridoxal phosphate binding	0.963399675	1.120183005
ENSG00000131462	TUBG1 subnetwork	0.517794397	1.120206382
GO:0032370	positive regulation of lipid transport	0.51811143	1.120223815
GO:0046459	short-chain fatty acid metabolic process	0.963397399	1.120273321
GO:0019898	extrinsic to membrane	0.963366806	1.120331398
ENSG00000125885	MCM8 subnetwork	0.963165514	1.12034035
GO:0019842	vitamin binding	0.963336723	1.120365293
GO:0043168	anion binding	0.963137544	1.120402484
ENSG00000069966	GNB5 subnetwork	0.963066752	1.120424296
MP:0000755	hindlimb paralysis	0.963335459	1.120455645
ENSG00000177469	PTRF subnetwork	0.518353106	1.120488447
GO:0010656	negative regulation of muscle cell apoptotic process	0.9630649	1.120514682
GO:0048483	autonomic nervous system development	0.963021481	1.120580879
MP:0002673	abnormal sperm number	0.963016551	1.120667258

GO:0017153	sodium:dicarboxylate symporter activity	0.963014438	1.120749617
GO:0005328	neurotransmitter:sodium symporter activity	0.962815065	1.120782889
GO:0032459	regulation of protein oligomerization	0.518573178	1.120814447
ENSG00000197223	C1D subnetwork	0.96299727	1.120831988
GO:0030837	negative regulation of actin filament polymerization	0.962779826	1.120853176
MP:0008670	decreased interleukin-12b secretion	0.518692638	1.120891813
MP:0005269	abnormal occipital bone morphology	0.962987841	1.120914373
GO:0002062	chondrocyte differentiation	0.962769638	1.120935583
GO:0030134	ER to Golgi transport vesicle	0.519029865	1.120967271
ENSG00000164944	KIAA1429 subnetwork	0.962705436	1.120993784
GO:0016574	histone ubiquitination	0.962687481	1.121064105
ENSG00000117500	TMED5 subnetwork	0.518831478	1.121064172
GO:0001568	blood vessel development	0.519008357	1.121101856
ENSG00000142039	CCDC97 subnetwork	0.519555723	1.12110219
ENSG00000033627	ATP6V0A1 subnetwork	0.962656497	1.121118288
ENSG00000164687	FABP5 subnetwork	0.518964506	1.121163403
MP:0002655	abnormal keratinocyte morphology	0.519626564	1.121172092
GO:0006898	receptor-mediated endocytosis	0.96262446	1.121172481
REACTOME_BIOSYNTHESIS_OF_T	REACTOME_BIOSYNTHESIS_OF_THE_N:GLYCAN_PRECUR	0.519521686	1.121200175
MP:0010301	increased stomach tumor incidence	0.519284092	1.121209465
ENSG00000172315	TP53RK subnetwork	0.962615892	1.121250909
ENSG00000163110	PDLIM5 subnetwork	0.519221695	1.121256392
ENSG00000170632	ARMC10 subnetwork	0.519477994	1.121283586
ENSG00000215756	ENSG00000215756 subnetwork	0.962592003	1.121317235
GO:0043434	response to peptide hormone stimulus	0.519455631	1.121403534
ENSG00000118137	APOA1 subnetwork	0.962592003	1.121407802
MP:0004158	right aortic arch	0.96255941	1.121457997
ENSG00000117399	CDC20 subnetwork	0.962554878	1.12154859
MP:0000159	abnormal xiphoid process morphology	0.962477983	1.121620748
GO:0007501	mesodermal cell fate specification	0.962552242	1.12163112
MP:0001566	hyperphosphatemia	0.962455576	1.121675016
ENSG00000161888	SPC24 subnetwork	0.962408735	1.121733333
GO:0031122	cytoplasmic microtubule organization	0.962383691	1.121799741
GO:0014031	mesenchymal cell development	0.962350259	1.121858078
MP:0009886	failure of palatal shelf elevation	0.962314094	1.121912383
ENSG00000169727	GPS1 subnetwork	0.520183107	1.121946593
GO:0031047	gene silencing by RNA	0.520274776	1.121950686
GO:0001669	acrosomal vesicle	0.962271708	1.121958613
REACTOME_ION_CHANNEL_TRAN	REACTOME_ION_CHANNEL_TRANSPORT	0.962242206	1.122008892
ENSG00000145041	VPRBP subnetwork	0.520151004	1.122037361
REACTOME_GAP_JUNCTION_DEG	REACTOME_GAP_JUNCTION_DEGRADATION	0.96224107	1.122095561
ENSG00000172137	CALB2 subnetwork	0.962193832	1.122125647
MP:0011097	complete embryonic lethality before turning of embryo	0.962189842	1.122212339
MP:0004615	cervical vertebral transformation	0.520632936	1.122240047
ENSG00000118491	C6orf94 subnetwork	0.962132865	1.122246482
ENSG00000112715	VEGFA subnetwork	0.520554187	1.122294341
MP:0005542	corneal vascularization	0.52049847	1.122297593
ENSG00000163785	RYK subnetwork	0.962118877	1.122325111
GO:0051882	mitochondrial depolarization	0.961710752	1.122358414
ENSG00000173372	C1QA subnetwork	0.961669663	1.122380451
GO:0008250	oligosaccharyltransferase complex	0.962097965	1.122395665
ENSG00000112379	KIAA1244 subnetwork	0.961812414	1.1224011
GO:0060251	regulation of glial cell proliferation	0.961636521	1.12243486
MP:0003723	abnormal long bone morphology	0.961948101	1.122443779

MP:0009450	abnormal axon fasciculation	0.962076673	1.12246623
ENSG00000161533	ACOX1 subnetwork	0.961315628	1.122466408
GO:0009071	serine family amino acid catabolic process	0.961273947	1.122492512
MP:0000876	Purkinje cell degeneration	0.961622721	1.122513555
REACTOME_MITOTIC_G2:G2M_PHASES	REACTOME_MITOTIC_G2:G2M_PHASES	0.961229148	1.122522668
MP:0003052	omphalocele	0.961151994	1.122524492
ENSG00000149636	DSN1 subnetwork	0.961105837	1.122538462
MP:0000933	abnormal rhombomere morphology	0.96158949	1.122580123
ENSG00000167842	MIS12 subnetwork	0.961105837	1.122629363
GO:0048644	muscle organ morphogenesis	0.961585671	1.122666936
GO:0021782	glial cell development	0.961092109	1.122700032
GO:0060416	response to growth hormone stimulus	0.520895493	1.122739866
GO:0001502	cartilage condensation	0.961068945	1.122770714
GO:0060219	camera-type eye photoreceptor cell differentiation	0.961048539	1.122837356
GO:0019213	deacetylase activity	0.960848655	1.122911772
ENSG00000139112	GABARAPL1 subnetwork	0.961043668	1.122928311
REACTOME_SPRY_REGULATION_OF_FGF_SIGNALING	REACTOME_SPRY_REGULATION_OF_FGF_SIGNALING	0.521078494	1.122940662
ENSG00000138092	CENPO subnetwork	0.960714057	1.122972206
GO:0034446	substrate adhesion-dependent cell spreading	0.960841252	1.122994652
MP:0003604	single kidney	0.961014856	1.122994977
GO:0043395	heparan sulfate proteoglycan binding	0.960686876	1.123038898
ENSG00000116852	KIF21B subnetwork	0.960674624	1.123113705
GO:0030016	myofibril	0.960667868	1.123200681
ENSG00000170144	HNRNPA3 subnetwork	0.521411544	1.123229379
GO:0009062	fatty acid catabolic process	0.960614703	1.12324309
KEGG_BASAL_CELL_CARCINOMA	KEGG_BASAL_CELL_CARCINOMA	0.960580386	1.123305772
MP:0003203	increased neuron apoptosis	0.521633482	1.123339161
GO:0001953	negative regulation of cell-matrix adhesion	0.521954109	1.123340128
REACTOME_G2M_TRANSITION	REACTOME_G2M_TRANSITION	0.96053368	1.123344143
ENSG00000160224	AIRE subnetwork	0.521400835	1.123349366
GO:0044327	dendritic spine head	0.960455856	1.123350089
MP:0004110	transposition of great arteries	0.521347212	1.123367347
GO:0014069	postsynaptic density	0.960455856	1.123441174
GO:0043547	positive regulation of GTPase activity	0.521602063	1.123451843
ENSG00000131459	GFPT2 subnetwork	0.522111704	1.123467754
GO:0071359	cellular response to dsRNA	0.521851812	1.123492572
ENSG00000215320	ENSG00000215320 subnetwork	0.521949377	1.123496432
ENSG00000165023	DIRAS2 subnetwork	0.960440349	1.123512001
GO:0051592	response to calcium ion	0.522309467	1.123555523
ENSG00000100288	CHKB subnetwork	0.522231903	1.12356623
GO:0045132	meiotic chromosome segregation	0.960425971	1.123603114
GO:0010579	positive regulation of adenylate cyclase activity involved	0.960396742	1.12363747
GO:0010564	regulation of cell cycle process	0.521843974	1.123648944
GO:0007189	adenylate cyclase-activating G-protein coupled receptor	0.960396742	1.123728607
MP:0001524	impaired limb coordination	0.523107027	1.12380814
GO:0010578	regulation of adenylate cyclase activity involved in G-pro	0.960396742	1.12381976
MP:0003141	cardiac fibrosis	0.522982627	1.123822332
GO:0005154	epidermal growth factor receptor binding	0.523058208	1.123877017
GO:0005882	intermediate filament	0.960369986	1.123890647
ENSG00000163605	PPP4R2 subnetwork	0.522928381	1.123891232
ENSG00000085832	EPS15 subnetwork	0.52263711	1.123905136
ENSG00000111707	SUDS3 subnetwork	0.522721497	1.123938027
MP:0000880	decreased Purkinje cell number	0.524297133	1.123952139
ENSG00000173599	PC subnetwork	0.522842678	1.123963636

GO:0016829	lyase activity	0.960357891	1.123973714
ENSG00000103415	HMOX2 subnetwork	0.522899759	1.123981966
ENSG00000215902	ENSG00000215902 subnetwork	0.522609833	1.123995925
GO:0072273	metanephric nephron morphogenesis	0.96031297	1.124
ENSG00000130414	NDUFA10 subnetwork	0.523424658	1.124022955
GO:0001701	in utero embryonic development	0.523355941	1.124026446
GO:0030176	integral to endoplasmic reticulum membrane	0.524266115	1.124049898
GO:0006706	steroid catabolic process	0.960301443	1.124070919
ENSG00000123240	OPTN subnetwork	0.5237915	1.124074343
GO:0034383	low-density lipoprotein particle clearance	0.523333189	1.124117134
GO:0042375	quinone cofactor metabolic process	0.960260238	1.124117504
ENSG00000105289	TJP3 subnetwork	0.524473654	1.124137181
ENSG00000120708	TGFBI subnetwork	0.523743102	1.124164972
ENSG00000120334	CENPL subnetwork	0.960241429	1.12417627
ENSG00000161040	FBXL13 subnetwork	0.524153779	1.124180209
GO:0014910	regulation of smooth muscle cell migration	0.524248982	1.124198462
ENSG00000010256	UQCRC1 subnetwork	0.960189995	1.124214755
ENSG00000108468	CBX1 subnetwork	0.52411678	1.124263532
GO:0009126	purine nucleoside monophosphate metabolic process	0.523703644	1.124277415
ENSG00000168702	LRP1B subnetwork	0.96002097	1.124281539
ENSG00000197429	IPP subnetwork	0.959948708	1.124283511
ENSG00000181061	HIGD1A subnetwork	0.960162081	1.124289773
GO:0030516	regulation of axon extension	0.960096684	1.124291744
MP:0001196	shiny skin	0.523955184	1.124303136
ENSG00000162946	DISC1 subnetwork	0.524623971	1.12431492
GO:0002920	regulation of humoral immune response	0.524702214	1.124347637
ENSG00000173805	HAP1 subnetwork	0.959920446	1.124354498
GO:0005372	water transmembrane transporter activity	0.524098549	1.124397678
GO:0009167	purine ribonucleoside monophosphate metabolic process	0.523703644	1.124440732
REACTOME_MRNA_3:END_PROCE	REACTOME_MRNA_3:END_PROCESSING	0.959917245	1.124445798
MP:0010378	increased respiratory quotient	0.524071858	1.124502831
REACTOME_POST:ELONGATION_I	REACTOME_POST:ELONGATION_PROCESSING_OF_INTR	0.959917245	1.124537112
REACTOME_ADG_SIGNALLING_TH	REACTOME_ADG_SIGNALLING_THROUGH_P2Y_PURINO	0.959914469	1.124624381
ENSG00000064961	HMG20B subnetwork	0.959844141	1.124642625
GO:0006957	complement activation, alternative pathway	0.959839475	1.124721794
MP:0009745	abnormal behavioral response to xenobiotic	0.525105917	1.124775362
MP:0000277	abnormal heart shape	0.959812144	1.12478879
ENSG00000147082	CCNB3 subnetwork	0.525028633	1.12484418
GO:0060004	reflex	0.959809025	1.124876107
GO:0051187	cofactor catabolic process	0.959773556	1.124939064
ENSG00000198301	SDAD1 subnetwork	0.525356181	1.12494929
GO:0046530	photoreceptor cell differentiation	0.959700204	1.124987811
ENSG00000162552	WNT4 subnetwork	0.959753883	1.124989843
ENSG00000105695	MAG subnetwork	0.959683718	1.125050792
ENSG00000126583	PRKCG subnetwork	0.525352224	1.125097812
MP:0000556	abnormal hindlimb morphology	0.959667158	1.125125975
REACTOME_COOPERATION_OF_P	REACTOME_COOPERATION_OF_PREFOLDIN_AND_TRICC	0.526063992	1.125130246
GO:0050772	positive regulation of axonogenesis	0.959636813	1.125193042
ENSG00000073921	PICALM subnetwork	0.525962604	1.125246091
GO:0060601	lateral sprouting from an epithelium	0.959625708	1.12526012
ENSG00000055163	CYFIP2 subnetwork	0.525696961	1.125282445
REACTOME_PREFOLDIN_MEDIATI	REACTOME_PREFOLDIN_MEDIATED_TRANSFER_OF_SUE	0.526063992	1.125293096
ENSG00000158828	PINK1 subnetwork	0.525627564	1.125329567
REACTOME_FORMATION_OF_THI	REACTOME_FORMATION_OF_THE_EARLY_ELONGATION	0.95960482	1.125335339

GO:0016235	aggresome	0.525926125	1.125351093
ENSG00000167930	ITFG3 subnetwork	0.525825833	1.1253874
REACTOME_FORMATION_OF_THI	REACTOME_FORMATION_OF_THE_HIV:1_EARLY_ELONG	0.95960482	1.125426829
GO:0010885	regulation of cholesterol storage	0.525910866	1.125477845
GO:0046969	NAD-dependent histone deacetylase activity (H3-K9 spec	0.959574087	1.125493943
GO:0032129	histone deacetylase activity (H3-K9 specific)	0.959574087	1.125585461
ENSG00000101132	PFDN4 subnetwork	0.526294106	1.12558964
ENSG00000152253	SPC25 subnetwork	0.95943009	1.125597755
ENSG00000134690	CDCA8 subnetwork	0.959519398	1.1256404
ENSG00000140463	BBS4 subnetwork	0.959388469	1.125644571
GO:0010464	regulation of mesenchymal cell proliferation	0.526430045	1.125665509
GO:0008105	asymmetric protein localization	0.959282914	1.125681282
ENSG00000115947	ORC4 subnetwork	0.959352561	1.125691394
ENSG00000171873	ADRA1D subnetwork	0.959231052	1.125732184
MP:0002944	increased lactate dehydrogenase level	0.959178914	1.125774957
MP:0000749	muscle degeneration	0.959095924	1.125809601
ENSG00000138433	CIR1 subnetwork	0.959056256	1.125860526
GO:0046463	acylglycerol biosynthetic process	0.526666322	1.125875036
MP:0004736	abnormal distortion product otoacoustic emission	0.959039497	1.125948079
REACTOME_POST:CHAPERONIN_	REACTOME_POST:CHAPERONIN_TUBULIN_FOLDING_PA	0.95902549	1.126027509
GO:0046460	neutral lipid biosynthetic process	0.526666322	1.1260379
MP:0003205	testicular atrophy	0.958964323	1.126066254
GO:0003071	renal system process involved in regulation of systemic a	0.958956464	1.126145706
ENSG00000136982	DSCC1 subnetwork	0.95895103	1.126233312
GO:0005184	neuropeptide hormone activity	0.95883556	1.12626608
GO:0021695	cerebellar cortex development	0.958949587	1.126325002
ENSG0000011243	AKAP8L subnetwork	0.527010753	1.126355748
MP:0001526	abnormal placing response	0.958833069	1.126357788
GO:0005112	Notch binding	0.958820739	1.126429153
ENSG00000137812	CASC5 subnetwork	0.958819346	1.126508673
MP:0009814	increased prostaglandin level	0.52733923	1.1265756
ENSG00000175279	APITD1 subnetwork	0.958796878	1.126588207
REACTOME_KINESINS	REACTOME_KINESINS	0.527387666	1.126615118
ENSG00000182973	CNOT10 subnetwork	0.527543245	1.1266291
ENSG00000126217	MCF2L subnetwork	0.958788792	1.126671825
GO:0043073	germ cell nucleus	0.527313293	1.126709556
REACTOME_COMPLEMENT_CASC	REACTOME_COMPLEMENT_CASCADE	0.527234681	1.126713418
GO:0033178	proton-transporting two-sector ATPase complex, catalyti	0.958687924	1.126729124
GO:0090192	regulation of glomerulus development	0.958760645	1.12673102
GO:0030897	HOPS complex	0.958671827	1.126784259
MP:0004042	decreased susceptibility to kidney reperfusion injury	0.527539249	1.126791908
ENSG00000117592	PRDX6 subnetwork	0.958548549	1.126870111
ENSG00000149084	HSD17B12 subnetwork	0.958667897	1.126871995
ENSG00000155097	ATP6V1C1 subnetwork	0.958480822	1.126884524
ENSG00000204133	ENSG00000204133 subnetwork	0.958427289	1.12691524
GO:0030247	polysaccharide binding	0.958413298	1.12699894
GO:0001871	pattern binding	0.958413298	1.127090805
MP:0001046	abnormal enteric neuron morphology	0.958222905	1.127170811
GO:0006385	transcription elongation from RNA polymerase III promo	0.958411452	1.127178609
ENSG00000122786	CALD1 subnetwork	0.958194563	1.127234181
GO:0006386	termination of RNA polymerase III transcription	0.958411452	1.127270504
ENSG0000014138	POLA2 subnetwork	0.958177894	1.127301639
GO:0030057	desmosome	0.958157701	1.127377263
MP:0000269	abnormal heart looping	0.958066755	1.127387652

ENSG00000138758	SEPT11 subnetwork	0.958062773	1.127471452
GO:0050482	arachidonic acid secretion	0.958048911	1.127538951
MP:0008261	arrest of male meiosis	0.528984003	1.127574272
GO:0005583	fibrillar collagen	0.958045488	1.127630935
GO:0046164	alcohol catabolic process	0.958040165	1.127722934
ENSG00000149100	EIF3M subnetwork	0.528975004	1.12773691
ENSG00000169592	INO80E subnetwork	0.528114099	1.127744871
GO:0042417	dopamine metabolic process	0.957933936	1.127760098
ENSG00000088926	F11 subnetwork	0.528262523	1.127787406
GO:0003729	mRNA binding	0.529137205	1.1277938
ENSG00000060339	CCAR1 subnetwork	0.528216937	1.127798642
ENSG00000108828	VAT1 subnetwork	0.958038347	1.127810868
ENSG00000133812	SBF2 subnetwork	0.957925262	1.127839889
GO:0032869	cellular response to insulin stimulus	0.528969838	1.127877957
GO:0051287	NAD binding	0.957881854	1.127903371
MP:0008762	embryonic lethality	0.957829954	1.127938296
GO:0007062	sister chromatid cohesion	0.529339595	1.127955594
ENSG00000135999	EPC2 subnetwork	0.528922675	1.127975761
GO:0016505	apoptotic protease activator activity	0.528441322	1.12799278
MP:0000562	polydactyly	0.957827583	1.128030365
GO:0070243	regulation of thymocyte apoptotic process	0.528876308	1.128051948
ENSG00000092847	EIF2C1 subnetwork	0.528599851	1.128056879
ENSG00000213066	FGFR1OP subnetwork	0.52856845	1.128097026
ENSG00000102580	DNAJC3 subnetwork	0.957826555	1.128122449
REACTOME_DESTABILIZATION_OF	REACTOME_DESTABILIZATION_OF_MRNA_BY_TRISTETRA	0.528860761	1.128171453
ENSG00000179889	PDXDC1 subnetwork	0.528746582	1.12817552
GO:0034109	homotypic cell-cell adhesion	0.957823284	1.128210466
ENSG00000144283	PKP4 subnetwork	0.957528875	1.128275074
ENSG00000065665	SEC61A2 subnetwork	0.957813072	1.128286251
MP:0010386	abnormal urinary bladder physiology	0.957752206	1.128300808
MP:0005309	increased circulating ammonia level	0.529547077	1.12831195
MP:0000786	abnormal embryonic neuroepithelial layer differentiation	0.957693171	1.128315368
MP:0006069	abnormal retinal neuronal layer morphology	0.957626903	1.128317681
ENSG00000143870	PDIA6 subnetwork	0.957452349	1.128326391
GO:0030252	growth hormone secretion	0.957450958	1.128418559
ENSG00000162374	ELAVL4 subnetwork	0.957418768	1.12848215
GO:0032421	stereocilium bundle	0.95741469	1.128574346
GO:0001990	regulation of systemic arterial blood pressure by hormones	0.957330405	1.128580766
ENSG00000198951	NAGA subnetwork	0.957323514	1.128664815
ENSG00000165868	HSPA12A subnetwork	0.95731027	1.128740704
ENSG00000145391	SETD7 subnetwork	0.957308724	1.128824779
GO:0061383	trabecula morphogenesis	0.957245263	1.128835309
ENSG00000171362	ENSG00000171362 subnetwork	0.957242312	1.128923492
ENSG00000166451	CENPN subnetwork	0.957209866	1.128987166
ENSG00000100253	MIOX subnetwork	0.529939931	1.129064572
ENSG00000066654	THUMPD1 subnetwork	0.957203358	1.129075376
GO:0007413	axonal fasciculation	0.957167305	1.129110457
GO:0015749	monosaccharide transport	0.957158887	1.129190515
GO:0016197	endosomal transport	0.957139339	1.12925832
ENSG00000142892	PIGK subnetwork	0.956987312	1.129259017
ENSG00000117697	NSL1 subnetwork	0.956939286	1.129302307
MP:0001431	abnormal eating behavior	0.957116624	1.129330226
MP:0001297	microphthalmia	0.95693417	1.129386503
GO:0000819	sister chromatid segregation	0.956928392	1.129478894

GO:0044264	cellular polysaccharide metabolic process	0.956896054	1.12950585
ENSG00000023318	ERP44 subnetwork	0.956856829	1.12957372
GO:0043516	regulation of DNA damage response, signal transduction	0.956805891	1.129604779
GO:0021761	limbic system development	0.956768493	1.129639935
GO:0010591	regulation of lamellipodium assembly	0.956618103	1.129652971
ENSG00000186871	ERCC6L subnetwork	0.956700796	1.129658728
GO:0019363	pyridine nucleotide biosynthetic process	0.956459413	1.129686477
GO:0002021	response to dietary excess	0.956614854	1.129737251
GO:0072525	pyridine-containing compound biosynthetic process	0.956459413	1.12977896
ENSG00000129810	SGOL1 subnetwork	0.956304793	1.129804307
GO:0019320	hexose catabolic process	0.956211557	1.129810842
ENSG00000102225	CDK16 subnetwork	0.956186274	1.12985423
MP:0005564	increased hemoglobin content	0.956431971	1.129859178
ENSG00000169252	ADRB2 subnetwork	0.956155436	1.1299181
GO:0055067	monovalent inorganic cation homeostasis	0.956124471	1.129957408
MP:0003731	abnormal retinal outer nuclear layer morphology	0.955860069	1.129959033
ENSG00000111674	ENO2 subnetwork	0.530507957	1.130007205
GO:0050684	regulation of mRNA processing	0.956104891	1.130021298
GO:0048742	regulation of skeletal muscle fiber development	0.530443592	1.130033146
ENSG00000163191	S100A11 subnetwork	0.955848802	1.130035234
GO:0006575	cellular modified amino acid metabolic process	0.955792171	1.130066377
GO:0071174	mitotic cell cycle spindle checkpoint	0.956099926	1.130109773
GO:0005326	neurotransmitter transporter activity	0.95604061	1.130124529
MP:0003058	increased insulin secretion	0.955785082	1.130154893
ENSG00000163681	SLMAP subnetwork	0.530915802	1.130177131
MP:0010412	atrioventricular septal defect	0.955656257	1.130213115
ENSG00000117385	LEPRE1 subnetwork	0.530781671	1.130236243
MP:0010956	abnormal mitochondrial ATP synthesis coupled electron	0.955784461	1.130243423
ENSG00000105325	FZR1 subnetwork	0.530719093	1.130247803
MP:0001475	reduced long term depression	0.955632364	1.130272973
GO:0004708	MAP kinase kinase activity	0.530910876	1.130325508
GO:0006892	post-Golgi vesicle-mediated transport	0.955607759	1.13033694
ENSG00000163904	SENP2 subnetwork	0.531096422	1.130338373
ENSG00000154839	SKA1 subnetwork	0.955592997	1.130409117
MP:0003878	abnormal ear physiology	0.955549527	1.130460807
GO:0007398	ectoderm development	0.95532976	1.130464201
MP:0000480	increased rib number	0.954905059	1.130475096
ENSG00000198399	ITSN2 subnetwork	0.954989728	1.130505415
ENSG00000172602	RND1 subnetwork	0.531231235	1.130521163
REACTOME_BOTULINUM_NEURO	REACTOME_BOTULINUM_NEUROTOXICITY	0.955534364	1.130528905
ENSG00000129170	CSRP3 subnetwork	0.955309553	1.130540518
GO:0015116	sulfate transmembrane transporter activity	0.954896329	1.130551452
ENSG00000075239	ACAT1 subnetwork	0.954833993	1.130562167
ENSG00000178585	CTNNBIP1 subnetwork	0.95524631	1.130575835
ENSG00000117758	STX12 subnetwork	0.955527744	1.130621617
ENSG00000117118	SDHB subnetwork	0.954811367	1.130626231
ENSG00000064490	RFXANK subnetwork	0.955217134	1.130631665
MP:0004096	abnormal midbrain-hindbrain boundary development	0.955167939	1.130642382
GO:0046883	regulation of hormone secretion	0.954751824	1.130669786
MP:0002650	abnormal ameloblast morphology	0.954691178	1.130684617
ENSG00000156873	PHKG2 subnetwork	0.954641083	1.130732288
GO:0033865	nucleoside bisphosphate metabolic process	0.954589177	1.130763547
ENSG00000012211	PRICKLE3 subnetwork	0.954551749	1.130811232
ENSG00000173406	DAB1 subnetwork	0.95452274	1.130858926

ENSG00000126067	PSMB2 subnetwork	0.954447394	1.130881991
ENSG00000139433	GLTP subnetwork	0.954446407	1.130974869
ENSG00000072952	MRVI1 subnetwork	0.531989383	1.130986624
MP:0008025	brain vacuoles	0.954402028	1.130997947
GO:0043010	camera-type eye development	0.95438757	1.131074421
ENSG00000072110	ACTN1 subnetwork	0.531977008	1.131120541
ENSG00000129991	TNNI3 subnetwork	0.954376886	1.13116323
GO:0046365	monosaccharide catabolic process	0.954371756	1.131252054
ENSG00000196923	PDLIM7 subnetwork	0.531942307	1.131254496
REACTOME_DESTABILIZATION_OF	REACTOME_DESTABILIZATION_OF_MRNA_BY_BUTYRAT	0.531699501	1.131296776
GO:0046068	cGMP metabolic process	0.954348926	1.131320352
GO:0016849	phosphorus-oxygen lyase activity	0.954280472	1.131322925
ENSG00000113889	KNG1 subnetwork	0.531645288	1.131337268
ENSG00000139352	ASCL1 subnetwork	0.532534415	1.131345214
REACTOME_REGULATION_OF_IN	REACTOME_REGULATION_OF_INSULIN_SECRETION	0.954217151	1.131350152
ENSG00000136243	NUPL2 subnetwork	0.531897445	1.131359712
MP:0004543	abnormal sperm physiology	0.531814752	1.131378616
GO:0060487	lung epithelial cell differentiation	0.53262996	1.13138382
GO:0032587	ruffle membrane	0.532694858	1.131400862
GO:0022624	proteasome accessory complex	0.954184954	1.131402038
ENSG00000155657	TTN subnetwork	0.532488277	1.13142159
ENSG00000162105	SHANK2 subnetwork	0.954136475	1.131425166
ENSG00000111786	SRSF9 subnetwork	0.53235763	1.131466571
MP:0010736	abnormal extraembryonic ectoderm morphology	0.954100798	1.131493506
GO:0016881	acid-amino acid ligase activity	0.532319928	1.131542997
GO:0048246	macrophage chemotaxis	0.532476769	1.131548304
GO:0030901	midbrain development	0.954089489	1.131561858
REACTOME_G_ALPHA_Z_SIGNALI	REACTOME_G_ALPHA_Z_SIGNALLING_EVENTS	0.954079473	1.13162611
MP:0001312	abnormal cornea morphology	0.954052532	1.131686262
GO:0043269	regulation of ion transport	0.954007885	1.131721756
GO:0048002	antigen processing and presentation of peptide antigen	0.953977547	1.131761368
ENSG00000140829	DHX38 subnetwork	0.53352304	1.13184558
ENSG00000031691	CENPQ subnetwork	0.953966638	1.131850329
ENSG00000009790	TRAF3IP3 subnetwork	0.533218234	1.13189977
KEGG_LINOLEIC_ACID_METABOLI	KEGG_LINOLEIC_ACID_METABOLISM	0.533689282	1.131915352
MP:0000588	thick tail	0.953950948	1.131939304
GO:0006281	DNA repair	0.533005493	1.13194225
ENSG00000074319	TSG101 subnetwork	0.53347515	1.131943448
MP:0009232	abnormal sperm nucleus morphology	0.533125408	1.131995116
GO:0045616	regulation of keratinocyte differentiation	0.533649545	1.132006027
MP:0000042	abnormal organ of Corti morphology	0.953928524	1.132011844
ENSG00000130175	PRKCSH subnetwork	0.533194547	1.132019245
ENSG00000142731	PLK4 subnetwork	0.533374585	1.132045944
ENSG00000185247	MAGEA11 subnetwork	0.533472358	1.132091588
GO:0007492	endoderm development	0.953926954	1.13210496
ENSG00000183091	NEB subnetwork	0.953890381	1.132136394
ENSG00000102189	EEA1 subnetwork	0.533874488	1.132168986
MP:0008456	abnormal retinal rod cell outer segment morphology	0.953872219	1.132213081
GO:0048488	synaptic vesicle endocytosis	0.953869821	1.132298009
GO:0042402	cellular biogenic amine catabolic process	0.953869203	1.132391179
GO:0021602	cranial nerve morphogenesis	0.953868766	1.132484365
GO:0030048	actin filament-based movement	0.953853359	1.132552876
GO:0008353	RNA polymerase II carboxy-terminal domain kinase activ	0.953796067	1.132567901
GO:0008320	protein transmembrane transporter activity	0.953772965	1.132640547

GO:0022884	macromolecule transmembrane transporter activity	0.953772965	1.132733783
GO:0007422	peripheral nervous system development	0.953314114	1.132793839
ENSG00000173482	PTPRM subnetwork	0.953753623	1.132802338
MP:0001293	anophthalmia	0.953555357	1.132855731
ENSG00000114812	VIPR1 subnetwork	0.95330006	1.132878913
ENSG00000123360	PDE1B subnetwork	0.953739238	1.132879137
GO:0015924	mannosyl-oligosaccharide mannosidase activity	0.953236229	1.132881621
GO:0016903	oxidoreductase activity, acting on the aldehyde or oxo gr	0.9535026	1.132907848
GO:0009068	aspartate family amino acid catabolic process	0.953708562	1.132935364
GO:0019748	secondary metabolic process	0.953477296	1.132959974
ENSG00000173581	CCDC106 subnetwork	0.953227673	1.132966716
ENSG00000155366	RHOC subnetwork	0.535053071	1.132991979
ENSG00000179841	AKAP5 subnetwork	0.534896446	1.132994269
MP:0004970	kidney atrophy	0.535122884	1.133030216
GO:0071173	spindle assembly checkpoint	0.953202824	1.133031227
GO:0006895	Golgi to endosome transport	0.953137321	1.133046309
ENSG00000002834	LASP1 subnetwork	0.534867749	1.133084969
MP:0002258	abnormal cricoid cartilage morphology	0.953086532	1.133090235
ENSG00000165731	RET subnetwork	0.535796081	1.133092548
ENSG00000181085	MAPK15 subnetwork	0.535046753	1.133139951
GO:0042645	mitochondrial nucleoid	0.535266826	1.133154353
ENSG00000147130	ZMYM3 subnetwork	0.953057616	1.133158892
ENSG00000143801	PSEN2 subnetwork	0.535762037	1.133168813
MP:0003896	prolonged PR interval	0.953016997	1.133198714
KEGG_GLYOXYLATE_AND_DICARE	KEGG_GLYOXYLATE_AND_DICARBOXYLATE_METABOLISI	0.535462705	1.133230747
ENSG00000182473	EXOC7 subnetwork	0.534865061	1.133247349
GO:0051146	striated muscle cell differentiation	0.536063468	1.133249929
REACTOME_CREATION_OF_C4_A	REACTOME_CREATION_OF_C4_AND_C2_ACTIVATORS	0.53572427	1.133259408
ENSG00000170624	SGCD subnetwork	0.9529979	1.133279756
GO:0042572	retinol metabolic process	0.535423531	1.133299928
ENSG00000050405	LIMA1 subnetwork	0.952959677	1.133323716
ENSG00000122692	SMU1 subnetwork	0.535679693	1.133335718
ENSG00000130560	UBAC1 subnetwork	0.952923146	1.133375927
ENSG00000126461	SCAF1 subnetwork	0.53561305	1.133390583
ENSG00000173545	ZNF622 subnetwork	0.53485477	1.133402609
GO:0031258	lamellipodium membrane	0.53606212	1.133404833
ENSG00000100241	SBF1 subnetwork	0.952899794	1.133448759
ENSG00000131238	PPT1 subnetwork	0.952831145	1.133451517
MP:0002075	abnormal coat/hair pigmentation	0.534800689	1.133457569
GO:0002448	mast cell mediated immunity	0.952797843	1.133516121
GO:0014070	response to organic cyclic compound	0.536035528	1.13353833
MP:0003662	abnormal long bone epiphyseal plate proliferative zone	0.534789031	1.133591398
GO:0009116	nucleoside metabolic process	0.95278734	1.133609599
ENSG00000119138	KLF9 subnetwork	0.534735027	1.133617723
GO:0071813	lipoprotein particle binding	0.952722821	1.133645361
ENSG00000116016	EPAS1 subnetwork	0.53461228	1.133670396
ENSG00000133477	FAM83F subnetwork	0.536324636	1.133724089
ENSG00000159086	GCFC1 subnetwork	0.534713437	1.133737272
GO:0071814	protein-lipid complex binding	0.952722821	1.133738865
ENSG00000005882	PDK2 subnetwork	0.952675572	1.133754021
GO:0008593	regulation of Notch signaling pathway	0.952621307	1.133756806
MP:0001967	deafness	0.952528498	1.133780216
ENSG00000141200	KIF2B subnetwork	0.952504264	1.133853135
ENSG00000151702	FLI1 subnetwork	0.536682059	1.133873964

ENSG00000126756	UXT subnetwork	0.5365999	1.133885951
ENSG00000104722	NEFM subnetwork	0.952488983	1.13394257
GO:0070207	protein homotrimerization	0.536564947	1.133983705
ENSG00000063601	MTMR1 subnetwork	0.952459667	1.134015514
ENSG00000136842	TMOD1 subnetwork	0.952430525	1.134080218
GO:0032225	regulation of synaptic transmission, dopaminergic	0.952385209	1.134116045
ENSG00000090539	CHRD subnetwork	0.952311634	1.134160132
GO:0015399	primary active transmembrane transporter activity	0.952304711	1.134249629
GO:0048730	epidermis morphogenesis	0.952095828	1.134266369
GO:0034394	protein localization at cell surface	0.95203728	1.134327002
GO:0015405	P-P-bond-hydrolysis-driven transmembrane transporter	0.952304711	1.134343268
GO:0005520	insulin-like growth factor binding	0.537000834	1.134354908
GO:0003333	amino acid transmembrane transport	0.952255585	1.134383256
REACTOME_THROMBIN_SIGNAL	REACTOME_THROMBIN_SIGNALING_THROUGH_PROTE	0.95203336	1.134420679
GO:0060048	cardiac muscle contraction	0.952024216	1.134501982
ENSG00000099797	TECR subnetwork	0.951984456	1.134542
ENSG00000183856	IQGAP3 subnetwork	0.951952196	1.134582025
GO:0060122	inner ear receptor stereocilium organization	0.951912644	1.13464271
ENSG00000088038	CNOT3 subnetwork	0.951912271	1.134736451
MP:0006400	decreased molar number	0.951908321	1.134826076
GO:0001976	neurological system process involved in regulation of sys	0.951896279	1.134907453
GO:0080025	phosphatidylinositol-3,5-bisphosphate binding	0.951889378	1.13500124
REACTOME_ANDROGEN_BIOSYN	REACTOME_ANDROGEN_BIOSYNTHESIS	0.951859332	1.135061983
ENSG00000145335	SNCA subnetwork	0.537385926	1.135078571
ENSG00000095261	PSMD5 subnetwork	0.951857587	1.135155798
GO:0005976	polysaccharide metabolic process	0.951806744	1.135204166
ENSG00000198722	UNC13B subnetwork	0.951801865	1.135298008
ENSG00000134444	KIAA1468 subnetwork	0.951745141	1.135350529
MP:0000644	dextrocardia	0.951695611	1.135369988
GO:0072170	metanephric tubule development	0.951654282	1.135410121
ENSG00000173171	MTX1 subnetwork	0.951632643	1.135479203
GO:0003337	mesenchymal to epithelial transition involved in metane	0.951562724	1.135506947
MP:0000841	abnormal hindbrain morphology	0.951484126	1.135518154
ENSG00000127922	SHFM1 subnetwork	0.951323282	1.13554471
ENSG00000163235	TGFA subnetwork	0.951250886	1.135547651
GO:0007320	insemination	0.951441947	1.135562448
GO:0017085	response to insecticide	0.951225525	1.135612642
KEGG_N_GLYCAN_BIOSYNTHESIS	KEGG_N_GLYCAN_BIOSYNTHESIS	0.53786713	1.135654099
GO:0006400	tRNA modification	0.951193093	1.135661095
GO:0009201	ribonucleoside triphosphate biosynthetic process	0.951099996	1.135729063
ENSG00000196872	C2orf55 subnetwork	0.951182385	1.135734381
ENSG00000116833	NR5A2 subnetwork	0.951061559	1.135773401
GO:0006182	cGMP biosynthetic process	0.950992957	1.1357805
MP:0010819	primary atelectasis	0.537852476	1.135787745
ENSG00000172354	GNB2 subnetwork	0.950969043	1.13585382
ENSG00000112851	ERBB2IP subnetwork	0.950937082	1.135914735
ENSG00000102384	CENPI subnetwork	0.950917006	1.13597566
GO:0010876	lipid localization	0.538387965	1.135978307
ENSG00000171759	PAH subnetwork	0.950910332	1.136061434
REACTOME_RNA_POLYMERASE_I	REACTOME_RNA_POLYMERASE_III_TRANSCRIPTION_INI	0.538361321	1.136061947
ENSG00000066248	NGEF subnetwork	0.950871026	1.136097541
GO:0009948	anterior/posterior axis specification	0.950682984	1.136172768
GO:0005547	phosphatidylinositol-3,4,5-trisphosphate binding	0.950861019	1.136175058
MP:0006396	decreased long bone epiphyseal plate size	0.538353458	1.136216988

GO:0072234	metanephric nephron tubule development	0.950651057	1.136225462
GO:0031105	septin complex	0.540502273	1.136227247
GO:0042787	protein ubiquitination involved in ubiquitin-dependent p	0.540872711	1.136237033
MP:0008249	abnormal common lymphocyte progenitor cell morphol	0.540595085	1.136243424
ENSG00000153140	CETN3 subnetwork	0.950825521	1.136244306
ENSG00000062485	CS subnetwork	0.538307357	1.136314963
GO:0072243	metanephric nephron epithelium development	0.950651057	1.136319583
ENSG00000101442	ACTR5 subnetwork	0.540832069	1.136320352
ENSG00000198804	MT-CO1 subnetwork	0.540760382	1.136361052
GO:0032156	septin cytoskeleton	0.540502273	1.136388849
ENSG00000143228	NUF2 subnetwork	0.950636236	1.136393008
GO:0044433	cytoplasmic vesicle part	0.540069957	1.136393396
ENSG00000143995	MEIS1 subnetwork	0.538276377	1.136398686
ENSG00000088538	DOCK3 subnetwork	0.540372819	1.13643477
GO:0008375	acetylglucosaminyltransferase activity	0.541070458	1.136437908
REACTOME_ARMS:MEDIATED_AC	REACTOME_ARMS:MEDIATED_ACTIVATION	0.540281285	1.136439954
ENSG00000151725	MLF1IP subnetwork	0.950606472	1.136441591
ENSG00000129691	ASH2L subnetwork	0.540215805	1.136480717
ENSG00000135775	COG2 subnetwork	0.540471982	1.136493599
ENSG00000135597	REPS1 subnetwork	0.950528244	1.136513921
ENSG00000123080	CDKN2C subnetwork	0.950603306	1.136519181
REACTOME_MRNA_SPLICING	REACTOME_MRNA_SPLICING	0.540052123	1.136519573
ENSG00000212875	ENSG00000212875 subnetwork	0.540760382	1.136522604
GO:0060589	nucleoside-triphosphatase regulator activity	0.538837816	1.136553003
GO:0021984	adenohypophysis development	0.9505219	1.136599818
ENSG00000067842	ATP2B3 subnetwork	0.538799093	1.13666524
KEGG_GLYCOPHINGOLIPID_BIOS	KEGG_GLYCOPHINGOLIPID_BIOSYNTHESIS_GANGLIO_S	0.950507847	1.136673297
REACTOME_MRNA_SPLICING_:	REACTOME_MRNA_SPLICING_:_MAJOR_PATHWAY	0.540052123	1.136681378
ENSG00000126247	CAPNS1 subnetwork	0.539158084	1.136744153
GO:0009886	post-embryonic morphogenesis	0.95050546	1.136767509
GO:0032934	sterol binding	0.539896088	1.136789631
ENSG00000141837	CACNA1A subnetwork	0.539824711	1.136794872
MP:0001147	small testis	0.539632752	1.136824854
ENSG00000122705	CLTA subnetwork	0.539763188	1.136828608
ENSG00000136108	CKAP2 subnetwork	0.540051583	1.136843229
REACTOME_RNA_POLYMERASE_I	REACTOME_RNA_POLYMERASE_II_TRANSCRIPTION_PRE	0.950484534	1.136853448
ENSG00000100614	PPM1A subnetwork	0.540006112	1.136884079
MP:0002051	skin papilloma	0.539145888	1.136884895
ENSG00000187323	DCC subnetwork	0.539299403	1.136910024
REACTOME_HIV:1_TRANSCRIPTIO	REACTOME_HIV:1_TRANSCRIPTION_INITIATION	0.950484534	1.136947691
GO:0005381	iron ion transmembrane transporter activity	0.539421887	1.136954662
ENSG00000109072	SEBOX subnetwork	0.539601257	1.136958381
ENSG00000138297	TIMM23 subnetwork	0.53975258	1.136983471
ENSG00000101350	KIF3B subnetwork	0.539120095	1.137025678
REACTOME_RNA_POLYMERASE_I	REACTOME_RNA_POLYMERASE_II_HIV:1_PROMOTER_E	0.950484534	1.13704195
ENSG00000135069	PSAT1 subnetwork	0.539593629	1.137120456
REACTOME_RNA_POLYMERASE_I	REACTOME_RNA_POLYMERASE_II_TRANSCRIPTION_INIT	0.950484534	1.137136224
REACTOME_RNA_POLYMERASE_I	REACTOME_RNA_POLYMERASE_II_TRANSCRIPTION_INIT	0.950484534	1.137230514
REACTOME_RNA_POLYMERASE_I	REACTOME_RNA_POLYMERASE_II_PROMOTER_ESCAPE	0.950484534	1.13732482
GO:0042461	photoreceptor cell development	0.950460758	1.137381821
MP:0000913	abnormal brain development	0.950459705	1.137476155
ENSG00000185518	SV2B subnetwork	0.950430962	1.137549768
REACTOME_RNA_POL_II_CTD_PH	REACTOME_RNA_POL_II_CTD_PHOSPHORYLATION_ANC	0.950401794	1.137615097
GO:0030878	thyroid gland development	0.950339853	1.13763481

ENSG00000113196	HAND1 subnetwork	0.950289305	1.137671119
GO:0043243	positive regulation of protein complex disassembly	0.950220494	1.13769084
ENSG00000143153	ATP1B1 subnetwork	0.950195092	1.137760352
MP:0004251	failure of heart looping	0.541865129	1.137810769
ENSG00000049167	ERCC8 subnetwork	0.950166666	1.137813278
GO:0016830	carbon-carbon lyase activity	0.95011479	1.137853764
MP:0000764	abnormal tongue epithelium morphology	0.950055968	1.137869356
ENSG00000100554	ATP6V1D subnetwork	0.950035965	1.137959658
ENSG00000108819	ENSG00000108819 subnetwork	0.949967701	1.13796696
KEGG_TASTE_TRANSDUCTION	KEGG_TASTE_TRANSDUCTION	0.949955594	1.138057285
MP:0011228	abnormal vitamin D level	0.949840553	1.138117579
ENSG00000142949	PTPRF subnetwork	0.949954813	1.138151777
GO:0043015	gamma-tubulin binding	0.949821136	1.13819133
ENSG00000151929	BAG3 subnetwork	0.949749074	1.138272425
ENSG00000104805	NUCB1 subnetwork	0.949818517	1.138277552
MP:0005551	abnormal eye electrophysiology	0.949742248	1.138358668
ENSG00000117425	PTCH2 subnetwork	0.949737626	1.138449078
ENSG00000115514	TXNDC9 subnetwork	0.949731309	1.138535349
GO:0044306	neuron projection terminus	0.949689769	1.138580093
GO:0031113	regulation of microtubule polymerization	0.949628742	1.138628999
ENSG00000009335	UBE3C subnetwork	0.949590164	1.138690377
ENSG00000171724	VAT1L subnetwork	0.949519354	1.138701903
GO:0002275	myeloid cell activation involved in immune response	0.949446769	1.138713431
MP:0003222	increased cardiomyocyte apoptosis	0.542442347	1.138721591
ENSG00000134686	PHC2 subnetwork	0.949433856	1.138799767
REACTOME_RNA_POLYMERASE_I	REACTOME_RNA_POLYMERASE_II_PRE:TRANSCRIPTION	0.543529502	1.138829033
GO:0044003	modification by symbiont of host morphology or physiology	0.543600958	1.138830617
GO:0002279	mast cell activation involved in immune response	0.949417804	1.138877805
ENSG00000110713	NUP98 subnetwork	0.543348512	1.138916466
ENSG00000114520	SNX4 subnetwork	0.543484375	1.138919609
ENSG00000185737	NRG3 subnetwork	0.543166232	1.138947219
MP:0003055	abnormal long bone epiphyseal plate morphology	0.949406073	1.13896417
ENSG00000168309	FAM107A subnetwork	0.949299038	1.138984037
MP:0005669	increased circulating leptin level	0.543324898	1.139007092
MP:0001680	abnormal mesoderm development	0.542665348	1.139014345
ENSG00000205609	EIF3CL subnetwork	0.543461635	1.13902439
ENSG00000206476	ENSG00000206476 subnetwork	0.54401256	1.139042357
MP:0001491	unresponsive to tactile stimuli	0.949292644	1.13907874
REACTOME_G_ALPHA_I_SIGNAL	REACTOME_G_ALPHA_I_SIGNALLING_EVENTS	0.543158495	1.13908046
ENSG00000187735	TCEA1 subnetwork	0.542775791	1.139094007
ENSG00000134109	EDEM1 subnetwork	0.949204583	1.139102777
MP:0009838	abnormal sperm axoneme morphology	0.54292545	1.1391113
ENSG00000119938	PPP1R3C subnetwork	0.949114688	1.139114345
GO:0031227	intrinsic to endoplasmic reticulum membrane	0.543307531	1.139126117
GO:0030695	GTPase regulator activity	0.542854474	1.139138151
GO:0035272	exocrine system development	0.543117419	1.139171161
GO:0006576	cellular biogenic amine metabolic process	0.949095686	1.139179973
ENSG00000213780	GTF2H4 subnetwork	0.54401256	1.13920374
ENSG00000136270	TBRG4 subnetwork	0.948592756	1.139219439
REACTOME_NRIF_SIGNALS_CELL	REACTOME_NRIF_SIGNALS_CELL_DEATH_FROM_THE_N	0.948671331	1.139232817
GO:0009145	purine nucleoside triphosphate biosynthetic process	0.94897878	1.139240559
MP:0004522	abnormal orientation of cochlear hair cell stereociliary bundle	0.948824103	1.139242928
GO:0000002	mitochondrial genome maintenance	0.948914502	1.139247983
MP:0003393	decreased cardiac output	0.949053438	1.139249771

GO:0010878	cholesterol storage	0.543098515	1.139290277
GO:0016879	ligase activity, forming carbon-nitrogen bonds	0.543879751	1.1392928
GO:0010453	regulation of cell fate commitment	0.948791979	1.139300275
ENSG00000178252	WDR6 subnetwork	0.948591671	1.139314248
ENSG00000215476	ENSG00000215476 subnetwork	0.54401256	1.139365169
MP:0000106	abnormal basisphenoid bone morphology	0.948583891	1.139392426
GO:0004033	aldo-keto reductase (NADP) activity	0.545951905	1.139445072
GO:0034764	positive regulation of transmembrane transport	0.545676326	1.1394603
MP:0001689	incomplete somite formation	0.546185822	1.139470713
ENSG00000149428	HYOU1 subnetwork	0.948570426	1.139478941
ENSG00000179091	CYC1 subnetwork	0.546364296	1.139487795
ENSG00000089902	RCOR1 subnetwork	0.544660609	1.139499009
GO:0031527	filopodium membrane	0.546037107	1.139524213
GO:0051055	negative regulation of lipid biosynthetic process	0.546294559	1.139535704
GO:0071285	cellular response to lithium ion	0.544280411	1.13953966
ENSG00000105971	CAV2 subnetwork	0.544752434	1.139542946
ENSG00000157985	AGAP1 subnetwork	0.948529413	1.139552984
ENSG00000136003	ISCU subnetwork	0.546145913	1.139582157
ENSG00000100029	PES1 subnetwork	0.545941478	1.139598927
ENSG00000130288	ENSG00000130288 subnetwork	0.544642816	1.13960368
ENSG00000166598	HSP90B1 subnetwork	0.545670099	1.139614243
REACTOME_RNA_POLYMERASE_I	REACTOME_RNA_POLYMERASE_I_CHAIN_ELONGATION	0.948529126	1.139647852
MP:0001973	increased thermal nociceptive threshold	0.948467621	1.139671967
GO:0070242	thymocyte apoptotic process	0.54461051	1.13967299
GO:0033043	regulation of organelle organization	0.545638928	1.139683437
ENSG00000145912	NHP2 subnetwork	0.545441746	1.139687588
ENSG00000100714	MTHFD1 subnetwork	0.544420986	1.139689846
ENSG00000100490	CDKL1 subnetwork	0.544547192	1.139692765
GO:0046685	response to arsenic-containing substance	0.54556842	1.13970318
ENSG00000123728	RAP2C subnetwork	0.545859413	1.139708998
ENSG00000105656	ELL subnetwork	0.545923659	1.139710452
GO:0090257	regulation of muscle system process	0.544508941	1.139712546
ENSG00000070950	RAD18 subnetwork	0.545103892	1.139738331
GO:0018198	peptidyl-cysteine modification	0.94846265	1.139762698
GO:0030173	integral to Golgi membrane	0.544965779	1.139806169
ENSG00000142528	ZNF473 subnetwork	0.545435153	1.139827513
MP:0005058	abnormal lysosome morphology	0.948423512	1.139832626
GO:0007435	salivary gland morphogenesis	0.546781905	1.1398378
ENSG00000102900	NUP93 subnetwork	0.545080753	1.13985005
MP:0010831	partial lethality	0.948395806	1.139873418
MP:0003883	enlarged stomach	0.545291692	1.139895347
ENSG00000108231	LGI1 subnetwork	0.948340851	1.139901724
ENSG00000159189	C1QC subnetwork	0.545412575	1.139917986
ENSG00000119048	UBE2B subnetwork	0.948109828	1.139982506
GO:0031055	chromatin remodeling at centromere	0.948330007	1.139984175
ENSG00000100034	PPM1F subnetwork	0.546769316	1.139991536
GO:0007043	cell-cell junction assembly	0.948274941	1.140045814
ENSG00000160801	PTH1R subnetwork	0.948107212	1.140073315
ENSG00000177565	TBL1XR1 subnetwork	0.546766787	1.140138262
GO:0034369	plasma lipoprotein particle remodeling	0.948084618	1.140151641
ENSG00000105939	ZC3HAV1 subnetwork	0.547015855	1.140219997
GO:0034368	protein-lipid complex remodeling	0.948084618	1.140246646
GO:0034367	macromolecular complex remodeling	0.948084618	1.140341667
MP:0002663	failure to form blastocoele	0.94795084	1.140369228

GO:0009109	coenzyme catabolic process	0.948054874	1.140395033
GO:0004180	carboxypeptidase activity	0.947918817	1.140439276
GO:0005097	Rab GTPase activator activity	0.547282803	1.140448329
MP:0001850	increased susceptibility to otitis media	0.947723195	1.140457729
REACTOME_OTHER_SEMAPHORIN	REACTOME_OTHER_SEMAPHORIN_INTERACTIONS	0.947913738	1.140530177
GO:0032026	response to magnesium ion	0.547249077	1.140531585
GO:0034121	regulation of toll-like receptor signaling pathway	0.94787156	1.140541892
ENSG00000153207	AHCTF1 subnetwork	0.947715736	1.140544484
GO:0048368	lateral mesoderm development	0.547415941	1.14059064
ENSG00000023287	RB1CC1 subnetwork	0.547927457	1.140612676
REACTOME_TRAFFICKING_OF_AMPA	REACTOME_TRAFFICKING_OF_AMPA_RECEPTORS	0.947711617	1.140639593
MP:0004486	decreased response of heart to induced stress	0.547878888	1.14064657
GO:0008565	protein transporter activity	0.548051396	1.140712576
ENSG00000092208	GEMIN2 subnetwork	0.947648338	1.140733945
REACTOME_Glutamate_Binding	REACTOME_Glutamate_Binding_Activation_of_Ampa	0.947711617	1.140734718
GO:0016469	proton-transporting two-sector ATPase complex	0.94748767	1.140761595
GO:0032647	regulation of interferon-alpha production	0.547841332	1.140772048
ENSG00000164776	PHKG1 subnetwork	0.947602004	1.140787388
MP:0002204	abnormal neurotransmitter level	0.947398397	1.140801769
MP:0009937	abnormal neuron differentiation	0.947484887	1.140856761
ENSG00000087302	C14orf166 subnetwork	0.947374728	1.140859408
ENSG00000081026	MAGI3 subnetwork	0.947359973	1.140925401
GO:0032607	interferon-alpha production	0.547841332	1.140932789
MP:0005656	decreased aggression	0.54778571	1.140952649
ENSG00000213465	ARL2 subnetwork	0.547715559	1.140979563
ENSG00000177301	KCNA2 subnetwork	0.947352314	1.141003922
MP:0000787	abnormal telencephalon morphology	0.947336448	1.141074111
GO:0044242	cellular lipid catabolic process	0.947311751	1.141135965
GO:0072283	metanephric renal vesicle morphogenesis	0.947261903	1.141176962
MP:0010263	total cataracts	0.947237303	1.141243009
MP:0005545	abnormal lens development	0.947214317	1.141313241
ENSG00000100284	TOM1 subnetwork	0.548433802	1.141327608
GO:0030670	phagocytic vesicle membrane	0.947210031	1.141408533
ENSG00000059728	MXD1 subnetwork	0.548414122	1.141453112
MP:0004249	abnormal crista ampullaris morphology	0.94718332	1.141474616
ENSG00000135338	LCA5 subnetwork	0.947183252	1.141569937
GO:0005625	soluble fraction	0.548831984	1.141605685
KEGG_AMINO_SUGAR_AND_NUC	KEGG_AMINO_SUGAR_AND_NUCLEOTIDE_SUGAR_MET	0.548668516	1.14165259
GO:0007041	lysosomal transport	0.947178282	1.141656923
MP:0003360	abnormal depression-related behavior	0.548774242	1.141660802
GO:0030318	melanocyte differentiation	0.94712809	1.141685459
GO:0000041	transition metal ion transport	0.947087802	1.141718176
ENSG00000076321	KLHL20 subnetwork	0.946996515	1.141800334
ENSG00000123219	CENPK subnetwork	0.947079724	1.141801019
GO:0001085	RNA polymerase II transcription factor binding	0.549012	1.141810891
REACTOME_MRNA_CAPPING	REACTOME_MRNA_CAPPING	0.946960881	1.141849779
GO:0033006	regulation of mast cell activation involved in immune res	0.946917932	1.141907587
ENSG00000066933	MYO9A subnetwork	0.94690242	1.141982117
ENSG00000110801	PSMD9 subnetwork	0.94688761	1.142069196
ENSG00000166794	PPIB subnetwork	0.946843387	1.142131216
KEGG_SULFUR_METABOLISM	KEGG_SULFUR_METABOLISM	0.94682836	1.142205784
MP:0002780	decreased circulating testosterone level	0.549425297	1.142256295
GO:0006308	DNA catabolic process	0.946800864	1.142263646
ENSG00000133275	CSNK1G2 subnetwork	0.946717191	1.142304799

MP:0002209	decreased germ cell number	0.549375034	1.14231148
ENSG00000188612	SUMO2 subnetwork	0.946666532	1.142358498
MP:0009305	decreased retroperitoneal fat pad weight	0.94665066	1.142437291
GO:0006027	glycosaminoglycan catabolic process	0.946632138	1.142520278
GO:0030201	heparan sulfate proteoglycan metabolic process	0.946565982	1.14254474
REACTOME_G:PROTEIN_ACTIVAT	REACTOME_G:PROTEIN_ACTIVATION	0.946527987	1.142590115
GO:0033176	proton-transporting V-type ATPase complex	0.946512122	1.142664771
ENSG00000162645	GBP2 subnetwork	0.946455919	1.142689251
ENSG00000049323	LTBP1 subnetwork	0.550955268	1.142715789
ENSG00000185989	RASA3 subnetwork	0.551582877	1.142731988
MP:0000418	focal hair loss	0.551377691	1.142749965
GO:0042346	positive regulation of NF-kappaB import into nucleus	0.551480468	1.142779024
GO:0009206	purine ribonucleoside triphosphate biosynthetic process	0.946429973	1.142780659
ENSG00000128881	TTBK2 subnetwork	0.551319948	1.142798036
MP:0000108	midline facial cleft	0.551548367	1.142829104
ENSG00000091136	LAMB1 subnetwork	0.550925024	1.142848119
ENSG00000091651	ORC6 subnetwork	0.9464155	1.142851167
MP:0004087	abnormal muscle fiber morphology	0.549961106	1.142857143
MP:0002950	abnormal neural crest cell migration	0.946377923	1.142921687
MP:0000530	abnormal kidney blood vessel morphology	0.55115807	1.142928301
GO:0001664	G-protein coupled receptor binding	0.551312233	1.142944312
GO:0005795	Golgi stack	0.551115105	1.142962391
ENSG00000108852	MPP2 subnetwork	0.946349368	1.142975483
GO:0045909	positive regulation of vasodilation	0.551256645	1.142978395
ENSG00000149131	SERPING1 subnetwork	0.55092362	1.143008564
GO:0009161	ribonucleoside monophosphate metabolic process	0.549953954	1.143010828
MP:0000102	abnormal nasal bone morphology	0.946336181	1.143058577
MP:0002628	hepatic steatosis	0.549918874	1.143066104
ENSG00000070087	PFN2 subnetwork	0.550188199	1.143105145
GO:0045776	negative regulation of blood pressure	0.550141541	1.143118234
GO:0031570	DNA integrity checkpoint	0.550900199	1.143126931
ENSG00000095139	ARCN1 subnetwork	0.550264983	1.143127196
REACTOME_GAP_JUNCTION_TRA	REACTOME_GAP_JUNCTION_TRAFFICKING	0.946309659	1.143137501
ENSG00000176248	ANAPC2 subnetwork	0.946242222	1.143153666
REACTOME_FGFR1_LIGAND_BINE	REACTOME_FGFR1_LIGAND_BINDING_AND_ACTIVATIO	0.946219401	1.143240981
GO:0016860	intramolecular oxidoreductase activity	0.550877596	1.143259374
REACTOME_RNA_POLYMERASE_I	REACTOME_RNA_POLYMERASE_III_TRANSCRIPTION_INI	0.550813979	1.143307584
ENSG00000126581	BECN1 subnetwork	0.550426551	1.143310849
GO:0033180	proton-transporting V-type ATPase, V1 domain	0.946207799	1.143328311
GO:0003727	single-stranded RNA binding	0.550564452	1.143346916
GO:0031228	intrinsic to Golgi membrane	0.552030988	1.14336463
ENSG00000166508	MCM7 subnetwork	0.551982251	1.143398739
GO:0071616	acyl-CoA biosynthetic process	0.946206376	1.143424027
GO:0008252	nucleotidase activity	0.550787146	1.143426043
GO:0035384	thioester biosynthetic process	0.946206376	1.143519759
ENSG00000112282	MED23 subnetwork	0.550785004	1.143572633
MP:0001394	circling	0.946198101	1.143607134
ENSG00000126858	RHOT1 subnetwork	0.55227528	1.143680818
ENSG00000146729	GBAS subnetwork	0.946195718	1.143702897
GO:0034765	regulation of ion transmembrane transport	0.946051849	1.14377251
GO:0006470	protein dephosphorylation	0.552454851	1.143773638
GO:0050931	pigment cell differentiation	0.946194833	1.143798677
MP:0008489	slow postnatal weight gain	0.552531492	1.143802521
MP:0000965	abnormal sensory neuron morphology	0.552603159	1.1438454

ENSG00000180190	C8orf42 subnetwork	0.946043256	1.143851566
GO:0006940	regulation of smooth muscle contraction	0.552432831	1.143877837
GO:0031497	chromatin assembly	0.946185999	1.14388191
ENSG00000170214	ADRA1B subnetwork	0.945991745	1.143901315
GO:0043631	RNA polyadenylation	0.945940792	1.143942694
GO:0005343	organic acid:sodium symporter activity	0.945933551	1.144034353
MP:0001236	abnormal epidermis stratum spinosum morphology	0.552777297	1.144105293
GO:0004091	carboxylesterase activity	0.945923605	1.144113457
ENSG00000166226	CCT2 subnetwork	0.5542566	1.144142698
GO:0032892	positive regulation of organic acid transport	0.945795977	1.144192089
MP:0000825	dilated lateral ventricles	0.945905436	1.144200955
ENSG00000164163	ABCE1 subnetwork	0.554356702	1.144220299
GO:0006775	fat-soluble vitamin metabolic process	0.554411871	1.144249023
GO:0006107	oxaloacetate metabolic process	0.554684467	1.144252232
MP:0008840	abnormal spike wave discharge	0.554241293	1.14426756
GO:0016459	myosin complex	0.945766407	1.144271226
GO:0035821	modification of morphology or physiology of other organ	0.554635057	1.144272359
MP:0000154	rib fusion	0.553300967	1.14432009
ENSG00000067334	DNTTIP2 subnetwork	0.554191683	1.144322626
GO:0019840	isoprenoid binding	0.55345144	1.144335664
GO:0006978	DNA damage response, signal transduction by p53 class 1	0.945734684	1.144346186
GO:0010894	negative regulation of steroid biosynthetic process	0.554171032	1.144391675
ENSG00000160213	CSTB subnetwork	0.553407527	1.144397818
REACTOME_SIGNALING_BY_VEGF	REACTOME_SIGNALING_BY_VEGF	0.553040691	1.144400896
ENSG00000128524	ATP6V1F subnetwork	0.94572202	1.144429541
GO:0051817	modification of morphology or physiology of other organ	0.554635057	1.14443204
MP:0003992	increased mortality induced by ionizing radiation	0.553295938	1.144480201
GO:0031984	organelle subcompartment	0.55402895	1.144487144
MP:0000955	abnormal spinal cord morphology	0.945721155	1.144525486
REACTOME_ADVANCED_GLYCOSYLATION	REACTOME_ADVANCED_GLYCOSYLATION_ENDPRODUCTS	0.554606935	1.144535939
GO:0050926	regulation of positive chemotaxis	0.553267088	1.144549398
GO:0045939	negative regulation of steroid metabolic process	0.554171032	1.144551551
REACTOME_VEGF_LIGAND:RECEPTOR	REACTOME_VEGF_LIGAND:RECEPTOR_INTERACTIONS	0.553040691	1.144561109
ENSG00000113578	FGF1 subnetwork	0.553690677	1.144616138
GO:0007091	mitotic metaphase/anaphase transition	0.945715254	1.144617255
ENSG00000198104	OR2T6 subnetwork	0.554016304	1.144619147
ENSG00000078674	PCM1 subnetwork	0.553239362	1.1446676
MP:0004448	abnormal presphenoid bone morphology	0.554164126	1.14467654
MP:0002621	delayed neural tube closure	0.945688245	1.144688076
ENSG00000154310	TNIK subnetwork	0.945635568	1.144712788
GO:0042044	fluid transport	0.553972543	1.144716243
REACTOME_FORMATION_OF_RNA	REACTOME_FORMATION_OF_RNA_POL_II_ELONGATION	0.555107122	1.144749686
GO:0008333	endosome to lysosome transport	0.94559989	1.144762664
GO:0030662	coated vesicle membrane	0.945574347	1.144825128
GO:0034362	low-density lipoprotein particle	0.55396199	1.144862296
GO:0004435	phosphatidylinositol phospholipase C activity	0.945542037	1.144887603
ENSG00000173020	ADRBK1 subnetwork	0.55391496	1.144903523
REACTOME_RNA_POLYMERASE_I	REACTOME_RNA_POLYMERASE_II_TRANSCRIPTION_ELONGATION	0.555107122	1.144909344
MP:0002818	abnormal dentin morphology	0.945519369	1.144954282
MP:0000477	abnormal intestine morphology	0.555349197	1.144966537
GO:0009262	deoxyribonucleotide metabolic process	0.945502232	1.145033557
ENSG00000214528	ENSG00000214528 subnetwork	0.555463037	1.145043915
REACTOME_FORMATION_OF_HIV	REACTOME_FORMATION_OF_HIV_1_ELONGATION_COMPLEX	0.555107122	1.145069047
ENSG00000064692	SNCAIP subnetwork	0.555552812	1.145093393

ENSG00000105968	H2AFV subnetwork	0.945487128	1.14510865
ENSG00000213782	DDX47 subnetwork	0.945470822	1.145192146
GO:0006363	termination of RNA polymerase I transcription	0.94543333	1.145242091
MP:0003703	abnormal vestibulocochlear ganglion morphology	0.945355966	1.14527526
GO:0019233	sensory perception of pain	0.945353328	1.145367184
GO:0008645	hexose transport	0.945319112	1.14541296
GO:0015758	glucose transport	0.945319112	1.145509108
MP:0000873	thin external granule cell layer	0.555885851	1.145567944
GO:0010517	regulation of phospholipase activity	0.945305011	1.14559268
GO:0031103	axon regeneration	0.945273295	1.145663672
ENSG00000136026	CKAP4 subnetwork	0.556075323	1.14569398
GO:0060429	epithelium development	0.559549656	1.145713296
KEGG_ALDOSTERONE_REGULATE	KEGG_ALDOSTERONE_REGULATED_SODIUM_REABSORP	0.556210701	1.145729413
GO:0021532	neural tube patterning	0.945259033	1.145734677
GO:0030282	bone mineralization	0.559523467	1.145802743
GO:0048016	inositol phosphate-mediated signaling	0.945253242	1.14581409
REACTOME_TRANSPORT_OF_ORG	REACTOME_TRANSPORT_OF_ORGANIC_ANIONS	0.559755406	1.145887566
MP:0002712	increased circulating glucagon level	0.559682364	1.145893921
ENSG00000163703	CRELD1 subnetwork	0.945251926	1.145910312
GO:0048284	organelle fusion	0.559499439	1.145919922
MP:0006035	abnormal mitochondrial morphology	0.559384236	1.14593265
ENSG00000170522	ELOVL6 subnetwork	0.94511437	1.145947421
KEGG_GALACTOSE_METABOLISM	KEGG_GALACTOSE_METABOLISM	0.55908302	1.145958125
ENSG00000042088	TDP1 subnetwork	0.55926469	1.145973108
ENSG00000068305	MEF2A subnetwork	0.559340297	1.145980596
ENSG00000139219	COL2A1 subnetwork	0.945231024	1.145989754
ENSG00000118271	TTR subnetwork	0.945091883	1.14601848
ENSG00000185046	ANKS1B subnetwork	0.556867014	1.146018931
GO:0031985	Golgi cisterna	0.559489179	1.146057919
ENSG00000065526	SPEN subnetwork	0.559226024	1.146069597
ENSG00000183625	CCR3 subnetwork	0.559921256	1.14608196
ENSG00000079462	PAFAH1B3 subnetwork	0.945056336	1.146085349
ENSG00000174175	SELP subnetwork	0.559073278	1.146089308
GO:0045947	negative regulation of translational initiation	0.556854669	1.146150633
ENSG00000173692	PSMD1 subnetwork	0.558387061	1.146153846
ENSG00000149187	CELF1 subnetwork	0.945033929	1.146156431
ENSG00000103740	ACSBG1 subnetwork	0.944981253	1.14620652
GO:0018202	peptidyl-histidine modification	0.559051958	1.146213592
MP:0009172	small pancreatic islets	0.558792692	1.146218954
ENSG00000104884	ERCC2 subnetwork	0.558901054	1.146247225
ENSG00000140474	ULK3 subnetwork	0.556824009	1.146254525
GO:0032271	regulation of protein polymerization	0.556761694	1.146267929
ENSG00000100347	SAMM50 subnetwork	0.944968445	1.146286026
GO:0019953	sexual reproduction	0.5601672	1.146297578
GO:0042593	glucose homeostasis	0.558371214	1.146299125
ENSG00000143553	SNAPIN subnetwork	0.944936595	1.146327731
ENSG00000103089	FA2H subnetwork	0.560119775	1.146331672
ENSG00000186193	C9orf140 subnetwork	0.558539431	1.146341802
GO:0046902	regulation of mitochondrial membrane permeability	0.556725943	1.146344011
GO:0051196	regulation of coenzyme metabolic process	0.558783693	1.146350264
ENSG00000105829	BET1 subnetwork	0.559039346	1.146358718
GO:0048243	norepinephrine secretion	0.944934345	1.146419867
ENSG00000071127	WDR1 subnetwork	0.557988708	1.146421623
MP:0004993	decreased bone resorption	0.560397862	1.146436479

ENSG00000077942	FBLN1 subnetwork	0.557589176	1.146439499
GO:0033500	carbohydrate homeostasis	0.558371214	1.146458333
ENSG00000132604	TERF2 subnetwork	0.557671134	1.146460854
MP:0004527	abnormal outer hair cell stereociliary bundle morphology	0.557800254	1.146482692
ENSG00000167657	DAPK3 subnetwork	0.558283532	1.146485623
ENSG00000144021	CIAO1 subnetwork	0.557952279	1.146490618
ENSG00000110042	DTX4 subnetwork	0.556715291	1.146496727
GO:0051193	regulation of cofactor metabolic process	0.558783693	1.146509368
GO:0006323	DNA packaging	0.944932935	1.146516221
ENSG00000108821	COL1A1 subnetwork	0.557892734	1.146517932
MP:0000811	hippocampal neuron degeneration	0.944059335	1.146525616
REACTOME_ENDOGENOUS_STEROL	REACTOME_ENDOGENOUS_STEROLS	0.558719048	1.146536646
ENSG00000163993	S100P subnetwork	0.944144037	1.146542732
ENSG00000029534	ANK1 subnetwork	0.557307082	1.146562761
ENSG00000154229	PRKCA subnetwork	0.557395558	1.146570196
KEGG_PURINE_METABOLISM	KEGG_PURINE_METABOLISM	0.557478919	1.146577629
GO:0051058	negative regulation of small GTPase mediated signal transduction	0.944908036	1.146578969
ENSG00000133030	MPRIIP subnetwork	0.557543164	1.146585061
ENSG00000115138	POMC subnetwork	0.558254005	1.14658933
GO:0005243	gap junction channel activity	0.556690172	1.146593759
MP:0006059	decreased susceptibility to ischemic brain injury	0.9447428	1.146595208
ENSG00000018699	TTC27 subnetwork	0.557778472	1.146600389
GO:0071577	zinc ion transmembrane transport	0.944038578	1.146601043
ENSG00000101901	ALG13 subnetwork	0.944644306	1.146607533
GO:0007440	foregut morphogenesis	0.943981715	1.146647034
ENSG00000047936	ROS1 subnetwork	0.944588546	1.146649289
MP:0006267	abnormal intercalated disc morphology	0.944885139	1.146650134
ENSG00000174442	ZWILCH subnetwork	0.944296954	1.146652368
ENSG00000106803	SEC61B subnetwork	0.558215672	1.146672225
ENSG00000165917	RAPSN subnetwork	0.944541198	1.146678439
GO:0005452	inorganic anion exchanger activity	0.557275181	1.146687543
GO:0070875	positive regulation of glycogen metabolic process	0.944474681	1.146724413
MP:0002098	abnormal vibrissa morphology	0.943975986	1.146726691
REACTOME_MEMBRANE_TRAFFICK	REACTOME_MEMBRANE_TRAFFICKING	0.94439007	1.146728343
GO:0006818	hydrogen transport	0.943921609	1.14675587
GO:0060193	positive regulation of lipase activity	0.943920376	1.146852382
MP:0001458	abnormal object recognition memory	0.943871448	1.146911034
ENSG00000168374	ARF4 subnetwork	0.943869354	1.147003367
GO:0016229	steroid dehydrogenase activity	0.943833923	1.147045206
GO:0006568	tryptophan metabolic process	0.943808974	1.147108099
GO:0040037	negative regulation of fibroblast growth factor receptor signaling	0.943647575	1.147141293
ENSG00000153044	CENPH subnetwork	0.943761039	1.147154164
GO:0031902	late endosome membrane	0.943549663	1.147187132
ENSG00000077721	UBE2A subnetwork	0.943644636	1.147233684
MP:0003130	anal atresia	0.943537428	1.147271119
ENSG00000171357	C1orf190 subnetwork	0.943423568	1.147300143
GO:0009152	purine ribonucleotide biosynthetic process	0.943492715	1.147313005
ENSG00000166851	PLK1 subnetwork	0.943423452	1.147396799
MP:0004564	enlarged myocardial fiber	0.56123399	1.14742047
REACTOME_LATE_PHASE_OF_HIV	REACTOME_LATE_PHASE_OF_HIV_LIFE_CYCLE	0.561075505	1.147447427
GO:0016363	nuclear matrix	0.56097541	1.14746091
ENSG00000154767	XPC subnetwork	0.943380706	1.147463982
MP:0005112	abnormal spinal cord ventral horn morphology	0.943161185	1.147492837
GO:2000379	positive regulation of reactive oxygen species metabolic process	0.561189848	1.147510029

REACTOME_CROSS:PRESENTATIO	REACTOME_CROSS:PRESENTATION_OF_SOLUBLE_EXOG	0.942695158	1.147542159
REACTOME_PEROXISOMAL_LIPID	REACTOME_PEROXISOMAL_LIPID_METABOLISM	0.942755271	1.147542366
MP:0003806	abnormal nucleotide metabolism	0.943121784	1.147543194
GO:0006378	mRNA polyadenylation	0.943363613	1.147543815
ENSG00000152137	HSPB8 subnetwork	0.942949399	1.147572284
GO:0031214	biomineral tissue development	0.943072996	1.14759356
MP:0001954	respiratory distress	0.943343804	1.147619449
GO:0003009	skeletal muscle contraction	0.942693338	1.147630492
ENSG00000179562	GCC1 subnetwork	0.942945067	1.147664812
GO:0004714	transmembrane receptor protein tyrosine kinase activity	0.942638538	1.147668241
ENSG00000168397	ATG4B subnetwork	0.942635923	1.147765033
ENSG00000215697	ENSG00000215697 subnetwork	0.942635923	1.147861842
GO:0042558	pteridine-containing compound metabolic process	0.942471909	1.147874135
ENSG00000100014	SPECC1L subnetwork	0.56230556	1.14788674
MP:0000836	abnormal substantia nigra morphology	0.562355303	1.147887032
MP:0002834	decreased heart weight	0.562246278	1.147914077
GO:0016645	oxidoreductase activity, acting on the CH-NH group of dc	0.942603082	1.147916491
ENSG00000134480	CCNH subnetwork	0.561932144	1.147933656
GO:0035909	aorta morphogenesis	0.942454207	1.147941449
ENSG00000176601	YSK4 subnetwork	0.561581663	1.147953257
MP:0004703	abnormal vertebral column morphology	0.561676973	1.147967367
REACTOME_FORMATION_OF_TR	REACTOME_FORMATION_OF_TRANSCRIPTION:COUPLE	0.942128608	1.147982782
ENSG00000153391	INO80C subnetwork	0.562454646	1.147997791
ENSG00000197283	SYNGAP1 subnetwork	0.942313825	1.148025316
GO:0030330	DNA damage response, signal transduction by p53 class	0.942255708	1.148033589
ENSG00000166285	ENSG00000166285 subnetwork	0.562221644	1.148038132
GO:0035904	aorta development	0.942454207	1.148038306
MP:0010856	dilated respiratory conducting tubes	0.561905817	1.148050871
MP:0003704	abnormal hair follicle development	0.562683841	1.14805383
REACTOME_DUAL_INCISION_REA	REACTOME_DUAL_INCISION_REACTION_IN_TC:NER	0.942128608	1.148079683
ENSG00000115252	PDE1A subnetwork	0.941969973	1.14808358
MP:0001696	failure to gastrulate	0.563319019	1.148090445
GO:0007034	vacuolar transport	0.942438564	1.148114083
ENSG00000140553	UNC45A subnetwork	0.941915475	1.148125633
ENSG00000162385	MAGOH subnetwork	0.561873804	1.148126642
ENSG00000196998	WDR45 subnetwork	0.941307434	1.148128749
ENSG00000186676	ENSG00000186676 subnetwork	0.942104493	1.148130171
MP:0011087	complete neonatal lethality	0.941841165	1.148142363
ENSG00000093217	XYLB subnetwork	0.941397393	1.148145802
ENSG00000149136	SSRP1 subnetwork	0.562964012	1.148158113
GO:0050678	regulation of epithelial cell proliferation	0.564499716	1.14819045
ENSG00000204359	CFB subnetwork	0.562221644	1.148196767
GO:0030071	regulation of mitotic metaphase/anaphase transition	0.941689345	1.148205388
GO:0072594	establishment of protein localization to organelle	0.562682644	1.148205411
ENSG00000116747	TROVE2 subnetwork	0.941293943	1.148221528
ENSG00000198712	MT-CO2 subnetwork	0.563312667	1.148228075
REACTOME_PYRUVATE_METABO	REACTOME_PYRUVATE_METABOLISM	0.562630863	1.148232776
MP:0000822	abnormal brain ventricle morphology	0.564256385	1.148237885
MP:0002679	abnormal corpus luteum morphology	0.562172685	1.148237977
GO:0031432	titin binding	0.941825962	1.148239318
ENSG00000180098	TRNAU1AP subnetwork	0.563531329	1.148283706
ENSG00000118402	ELOVL4 subnetwork	0.941669653	1.148298142
GO:0009164	nucleoside catabolic process	0.941285839	1.148314322
ENSG00000196497	IPO4 subnetwork	0.562962021	1.148316545

REACTOME_PYRUVATE_METABOLISM	REACTOME_PYRUVATE_METABOLISM_AND_CITRIC_ACID_CYCLE	0.564385998	1.148320716
ENSG00000197780	TAF13 subnetwork	0.564480976	1.148327828
GO:0001958	endochondral ossification	0.941647856	1.148369795
ENSG00000121542	SEC22A subnetwork	0.563857972	1.148374208
KEGG_VALINE_LEUCINE_AND_ISOLEUCINE_BIOSYNTHESIS	KEGG_VALINE_LEUCINE_AND_ISOLEUCINE_BIOSYNTHESIS	0.564241063	1.148375327
ENSG00000212874	ENSG00000212874 subnetwork	0.563312667	1.148386429
MP:0004433	abnormal cochlear inner hair cell physiology	0.563648969	1.148394211
GO:0001662	behavioral fear response	0.941285778	1.148411357
GO:0017148	negative regulation of translation	0.563838533	1.148456663
GO:0016202	regulation of striated muscle tissue development	0.562954112	1.14846122
ENSG00000112144	ICK subnetwork	0.941226795	1.14847883
ENSG00000204175	GPRIN2 subnetwork	0.563756627	1.148484013
ENSG00000152147	GEMIN6 subnetwork	0.564012895	1.148505304
GO:0016298	lipase activity	0.941091505	1.148508157
ENSG00000144848	ATG3 subnetwork	0.564231135	1.148526577
GO:0006362	transcription elongation from RNA polymerase I promoter	0.941009149	1.14853339
MP:0002896	abnormal bone mineralization	0.563310168	1.148537931
ENSG00000163161	ERCC3 subnetwork	0.564163193	1.148547032
GO:0051261	protein depolymerization	0.940694389	1.148549806
GO:0004716	receptor signaling protein tyrosine kinase activity	0.941203952	1.148554767
GO:0048638	regulation of developmental growth	0.940973459	1.148596669
MP:0001286	abnormal eye development	0.940673991	1.148613108
MP:0011110	partial preweaning lethality	0.56329562	1.148661884
GO:0015992	proton transport	0.940880865	1.148668301
MP:0002782	abnormal testes secretion	0.940969996	1.148693777
ENSG00000096063	SRPK1 subnetwork	0.564157268	1.148698347
GO:0006471	protein ADP-ribosylation	0.940669599	1.14871025
MP:0004556	enlarged allantois	0.940662369	1.148794722
GO:0043574	peroxisomal transport	0.940651766	1.148883438
MP:0001127	small ovary	0.565162007	1.148927245
ENSG00000102901	CENPT subnetwork	0.940594031	1.1489341
GO:0014068	positive regulation of phosphatidylinositol 3-kinase cascade	0.565261522	1.148934268
ENSG00000132002	DNAJB1 subnetwork	0.565023771	1.148954464
REACTOME_INSULIN_SYNTHESIS	REACTOME_INSULIN_SYNTHESIS_AND_PROCESSING	0.564966115	1.149002477
ENSG00000120802	TMPO subnetwork	0.565139384	1.149009629
ENSG00000137767	SQRDL subnetwork	0.940584302	1.149022843
GO:0045576	mast cell activation	0.940532965	1.149086217
GO:0015074	DNA integration	0.940492485	1.149124217
GO:0033280	response to vitamin D	0.940422783	1.149141068
ENSG00000116754	SRSF11 subnetwork	0.565431896	1.149168156
GO:0050818	regulation of coagulation	0.9403973	1.149229858
GO:0043603	cellular amide metabolic process	0.93941151	1.14930532
MP:0005480	increased circulating triiodothyronine level	0.940381201	1.149314431
ENSG00000104879	CKM subnetwork	0.939384009	1.149343387
GO:0044036	cell wall macromolecule metabolic process	0.939343995	1.149368751
ENSG00000145362	ANK2 subnetwork	0.940359353	1.149369392
ENSG00000177791	MYOZ1 subnetwork	0.939851143	1.149402947
ENSG00000167414	GNG8 subnetwork	0.940309741	1.14942013
GO:0044057	regulation of system process	0.940245874	1.149441246
GO:0006298	mismatch repair	0.939794391	1.149449479
ENSG00000143556	S100A7 subnetwork	0.939210455	1.149466056
GO:0071554	cell wall organization or biogenesis	0.939343995	1.149466147
ENSG00000142192	APP subnetwork	0.939989104	1.149483445
GO:0002444	myeloid leukocyte mediated immunity	0.940077345	1.149500423

GO:0051875	pigment granule localization	0.94019038	1.149504699
GO:0051668	localization within membrane	0.93918034	1.149521105
GO:0035239	tube morphogenesis	0.939318694	1.149542373
ENSG00000164022	AIMP1 subnetwork	0.939794256	1.149546841
MP:0001625	cardiac hypertrophy	0.939714136	1.149576451
ENSG00000078053	AMPH subnetwork	0.93917999	1.149614309
MP:0003059	decreased insulin secretion	0.938928564	1.149648126
GO:0046135	pyrimidine nucleoside catabolic process	0.939142726	1.149686334
GO:0050832	defense response to fungus	0.939054741	1.149703264
GO:0014829	vascular smooth muscle contraction	0.938866146	1.149711693
GO:0043679	axon terminus	0.938847194	1.149792232
MP:0004073	caudal body truncation	0.938843038	1.149889746
GO:0006493	protein O-linked glycosylation	0.565948265	1.149910653
GO:0006595	polyamine metabolic process	0.56607062	1.14996564
GO:0055015	ventricular cardiac muscle cell development	0.938839546	1.149978796
ENSG00000143614	GATAD2B subnetwork	0.938587567	1.149995758
MP:0002582	disorganized extraembryonic tissue	0.938689093	1.150021208
GO:0007099	centriole replication	0.938793336	1.15003393
ENSG00000106006	HOXA6 subnetwork	0.938556058	1.150050908
ENSG00000003756	RBM5 subnetwork	0.565936558	1.150068738
MP:0000131	abnormal long bone epiphysis morphology	0.938519713	1.150097582
GO:0046426	negative regulation of JAK-STAT cascade	0.938516157	1.15019518
GO:0050000	chromosome localization	0.938370702	1.150254626
MP:0001739	abnormal adrenal gland secretion	0.938465878	1.150263091
GO:0051303	establishment of chromosome localization	0.938370702	1.150352262
MP:0003675	kidney cysts	0.938302894	1.150365025
ENSG00000151148	UBE3B subnetwork	0.938279072	1.150428729
MP:0003645	increased pancreatic beta cell number	0.566353136	1.150432871
GO:0047555	3',5'-cyclic-GMP phosphodiesterase activity	0.566795871	1.150446306
GO:0061035	regulation of cartilage development	0.566889752	1.150487436
MP:0009404	centrally nucleated skeletal muscle fibers	0.938259294	1.150509424
GO:0005819	spindle	0.568925597	1.150540652
MP:0004814	reduced linear vestibular evoked potential	0.938231981	1.15056466
ENSG00000205307	SAP25 subnetwork	0.566777137	1.150583711
KEGG_PANTOTHENATE_AND_CO2/KEGG_PANTOTHENATE_AND_COA_BIOSYNTHESIS		0.568826771	1.150609172
MP:0005458	increased percent body fat	0.56963979	1.150615174
MP:0000885	ectopic Purkinje cell	0.568766082	1.150636637
GO:0002673	regulation of acute inflammatory response	0.568708006	1.150657264
GO:0015934	large ribosomal subunit	0.567935196	1.150658075
ENSG00000172680	MOS subnetwork	0.938226381	1.150662364
KEGG_HOMOLOGOUS_RECOMBINATION/KEGG_HOMOLOGOUS_RECOMBINATION		0.566643951	1.150673169
MP:0004901	decreased male germ cell number	0.566589305	1.150687002
ENSG00000126778	SIX1 subnetwork	0.568650449	1.150725829
ENSG00000076604	TRAF4 subnetwork	0.567806296	1.150726824
ENSG00000077454	LRCH4 subnetwork	0.566777137	1.150741758
REACTOME_GLUONEOGENESIS/REACTOME_GLUONEOGENESIS		0.569621846	1.150745146
KEGG_MATURITY_ONSET_DIABETES/KEGG_MATURITY_ONSET_DIABETES_OF_THE_YOUNG		0.938224863	1.150751592
ENSG00000173369	C1QB subnetwork	0.567908887	1.15076786
GO:0044449	contractile fiber part	0.938076411	1.15079419
ENSG00000128708	HAT1 subnetwork	0.937902237	1.150798573
ENSG00000091483	FH subnetwork	0.568579863	1.15080126
ENSG00000143977	SNRPG subnetwork	0.56777899	1.150816075
MP:0004157	interrupted aortic arch	0.569592891	1.150820457
ENSG00000173281	PPP1R3B subnetwork	0.938213832	1.150832342

ENSG00000148356	LRSAM1 subnetwork	0.567142379	1.150837452
REACTOME_FGFR4_LIGAND_BINDING_AND_ACTIVATION	REACTOME_FGFR4_LIGAND_BINDING_AND_ACTIVATION	0.938052185	1.150853721
GO:0003779	actin binding	0.567724742	1.150857339
GO:0031418	L-ascorbic acid binding	0.567451302	1.150864553
GO:0044058	regulation of digestive system process	0.93786916	1.150870858
ENSG00000179218	CALR subnetwork	0.569271321	1.150889436
GO:0006397	mRNA processing	0.568125227	1.150897875
ENSG00000010244	ZNF207 subnetwork	0.568286693	1.150911333
GO:0019198	transmembrane receptor protein phosphatase activity	0.567365582	1.150940159
GO:0009142	nucleoside triphosphate biosynthetic process	0.937842327	1.150943156
GO:0051480	cytosolic calcium ion homeostasis	0.569569424	1.150950492
ENSG00000132703	APCS subnetwork	0.568578512	1.150958904
ENSG00000141446	ESCO1 subnetwork	0.567705321	1.150994649
GO:0007623	circadian rhythm	0.568519625	1.151000137
ENSG00000102103	PQBP1 subnetwork	0.569259438	1.151012728
MP:0004174	abnormal spine curvature	0.568432306	1.151013976
MP:0004362	cochlear hair cell degeneration	0.569967256	1.15102501
ENSG00000173566	NUDT18 subnetwork	0.937836574	1.151028212
ENSG00000147854	UHRF2 subnetwork	0.567650143	1.15104281
GO:0051384	response to glucocorticoid stimulus	0.569891735	1.151045653
ENSG00000105997	HOXA3 subnetwork	0.568285856	1.151069079
MP:0002865	increased growth rate	0.569563769	1.151094242
GO:0005001	transmembrane receptor protein tyrosine phosphatase activity	0.567365582	1.151098147
MP:0000194	hypercalcemia	0.937783816	1.151100535
GO:0006720	isoprenoid metabolic process	0.937750691	1.151168621
ENSG00000102158	MAGT1 subnetwork	0.937596732	1.151181571
MP:0009403	increased variability of skeletal muscle fiber size	0.93771719	1.151223969
ENSG00000164061	BSN subnetwork	0.569536428	1.15122435
MP:0003789	osteosarcoma	0.937576255	1.151236929
ENSG00000185633	NDUFA4L2 subnetwork	0.93752829	1.151271042
GO:0016248	channel inhibitor activity	0.937513118	1.151347675
ENSG00000039560	RAI14 subnetwork	0.569532695	1.151368176
MP:0009379	abnormal foot pigmentation	0.57025138	1.151393823
GO:0008200	ion channel inhibitor activity	0.937513118	1.151445578
ENSG00000196531	NACA subnetwork	0.937503789	1.15152649
ENSG00000163516	ANKZF1 subnetwork	0.570400536	1.151543927
ENSG00000177084	POLE subnetwork	0.570528508	1.151563994
REACTOME_PROCESSING_OF_CAPPED_INTRON:CONTAINING	REACTOME_PROCESSING_OF_CAPPED_INTRON:CONTAINING	0.570492326	1.151584699
MP:0008272	abnormal endochondral bone ossification	0.937499918	1.151615921
ENSG00000160285	LSS subnetwork	0.570709998	1.151652328
MP:0005330	cardiomyopathy	0.937487041	1.151688356
GO:0010799	regulation of peptidyl-threonine phosphorylation	0.570681574	1.151754985
GO:0007032	endosome organization	0.937474336	1.151765056
ENSG00000163069	SGCB subnetwork	0.937407823	1.151803488
GO:0051310	metaphase plate congression	0.937288343	1.151867608
GO:0043425	bHLH transcription factor binding	0.937383913	1.151880211
ENSG00000204264	PSMB8 subnetwork	0.937199939	1.151880531
ENSG00000206298	PSMB8 subnetwork	0.937199939	1.151978555
GO:0008093	cytoskeletal adaptor activity	0.571048014	1.15203413
REACTOME_RNA_POLYMERASE_I_TRANSCRIPTION_TERMINATION	REACTOME_RNA_POLYMERASE_II_TRANSCRIPTION_TERMINATION	0.937131376	1.152072517
ENSG00000206234	ENSG00000206234 subnetwork	0.937199939	1.152076596
ENSG00000103266	STUB1 subnetwork	0.57116669	1.152102102
REACTOME_POST:ELONGATION_PROCESSING_OF_THE_TRANSCRIPT	REACTOME_POST:ELONGATION_PROCESSING_OF_THE_TRANSCRIPT	0.937131376	1.152170582
GO:0005669	transcription factor TFIID complex	0.571036932	1.152184599

GO:0000314	organellar small ribosomal subunit	0.572101065	1.152262505
REACTOME_CLEAVAGE_OF_GROWING_TRANSCRIPT_IN	REACTOME_CLEAVAGE_OF_GROWING_TRANSCRIPT_IN	0.937131376	1.152268664
ENSG00000184445	KNTC1 subnetwork	0.937088358	1.152324195
MP:0005170	cleft lip	0.93706316	1.152371222
GO:0046504	glycerol ether biosynthetic process	0.571610646	1.15239427
ENSG00000137462	TLR2 subnetwork	0.572268598	1.152412101
GO:0005763	mitochondrial small ribosomal subunit	0.572101065	1.152419575
ENSG00000052802	MSMO1 subnetwork	0.571550719	1.152428708
GO:0003143	embryonic heart tube morphogenesis	0.937055763	1.152469346
MP:0005421	loose skin	0.571753027	1.152503069
GO:0048514	blood vessel morphogenesis	0.571504592	1.152504094
GO:0005790	smooth endoplasmic reticulum	0.572446147	1.152520436
ENSG00000020577	SAMD4A subnetwork	0.572050974	1.152528971
MP:0010375	increased kidney iron level	0.571842998	1.152536825
ENSG00000196277	GRM7 subnetwork	0.937053081	1.152554713
GO:0033273	response to vitamin	0.937027494	1.152610288
ENSG00000060237	WNK1 subnetwork	0.572429161	1.15261616
ENSG00000125810	CD93 subnetwork	0.572014755	1.152617944
ENSG00000134588	USP26 subnetwork	0.571483746	1.152640917
GO:0071241	cellular response to inorganic substance	0.575708505	1.152668653
ENSG00000187391	MAGI2 subnetwork	0.936987519	1.15267013
GO:0000940	condensed chromosome outer kinetochore	0.571998046	1.152720578
GO:0016045	detection of bacterium	0.936967531	1.152759796
ENSG00000157227	MMP14 subnetwork	0.936930681	1.152811142
ENSG00000123143	PKN1 subnetwork	0.575708174	1.152818046
ENSG00000107863	ARHGAP21 subnetwork	0.575656794	1.152872629
GO:0009260	ribonucleotide biosynthetic process	0.936930554	1.152909354
ENSG00000142856	ITGB3BP subnetwork	0.936834741	1.152913862
MP:0003809	abnormal hair shaft morphology	0.575619914	1.15295433
MP:0004000	impaired passive avoidance behavior	0.936817729	1.152990798
ENSG00000157601	MX1 subnetwork	0.572749672	1.153024111
GO:0050927	positive regulation of positive chemotaxis	0.575576465	1.153029276
MP:0003843	abnormal sagittal suture morphology	0.572880485	1.15308499
ENSG00000197616	MYH6 subnetwork	0.936813894	1.15308905
ENSG00000126768	TIMM17B subnetwork	0.575553986	1.153111021
GO:0000323	lytic vacuole	0.936765199	1.153123402
ENSG00000163714	U2SURP subnetwork	0.575457116	1.153186441
ENSG00000120868	APAF1 subnetwork	0.936652394	1.153196386
MP:0002795	dilated cardiomyopathy	0.936575696	1.153196658
GO:0005764	lysosome	0.936765199	1.153221682
GO:0016010	dystrophin-associated glycoprotein complex	0.575552813	1.153267354
ENSG00000142599	RERE subnetwork	0.936558049	1.153273657
ENSG00000138764	CCNG2 subnetwork	0.573631911	1.153292517
GO:0031461	cullin-RING ubiquitin ligase complex	0.93649362	1.15330804
ENSG000000082146	STRADB subnetwork	0.575456899	1.153342826
GO:0032368	regulation of lipid transport	0.573081602	1.153370557
MP:0003048	abnormal cervical vertebrae morphology	0.936458302	1.153372271
MP:0002857	cochlear ganglion degeneration	0.573604393	1.153381412
ENSG00000168490	PHYHIP subnetwork	0.574698027	1.153402146
ENSG00000113194	FAF2 subnetwork	0.573349105	1.153403213
ENSG00000110717	NDUFS8 subnetwork	0.57326245	1.153403676
ENSG00000198692	EIF1AY subnetwork	0.573172249	1.153404139
ENSG00000115866	DARS subnetwork	0.575409582	1.153424658
GO:0008017	microtubule binding	0.936428385	1.153453569

GO:0001077	RNA polymerase II core promoter proximal region sequence-specific DNA binding	0.573980323	1.153453903
GO:0016236	macroautophagy	0.575231824	1.153459973
ENSG00000106211	HSPB1 subnetwork	0.573837629	1.153475245
GO:0006998	nuclear envelope organization	0.575363606	1.153479381
REACTOME_BILE_ACID_AND_BILE_SALT_METABOLISM	REACTOME_BILE_ACID_AND_BILE_SALT_METABOLISM	0.936357402	1.153483711
GO:0060191	regulation of lipase activity	0.936287708	1.153484009
ENSG00000100504	PYGL subnetwork	0.573565736	1.153504355
MP:0001676	abnormal apical ectodermal ridge morphology	0.936252725	1.153531218
GO:0030315	T-tubule	0.936193925	1.153535784
REACTOME_CYTOCHROME_P450__ARRANGED_BY_SUE	REACTOME_CYTOCHROME_P450__ARRANGED_BY_SUE	0.574695873	1.153552024
ENSG00000175324	LSM1 subnetwork	0.573955002	1.153556372
GO:0004012	phospholipid-translocating ATPase activity	0.57532994	1.153568037
ENSG00000013293	SLC7A14 subnetwork	0.575207991	1.153569005
GO:0043498	cell surface binding	0.574995448	1.153577247
ENSG00000101199	ARFGAP1 subnetwork	0.573806578	1.153577745
ENSG00000165304	MELK subnetwork	0.573524067	1.153586498
MP:0003862	decreased aggression towards males	0.936134343	1.153595803
ENSG00000164683	HEY1 subnetwork	0.574928666	1.153611677
MP:0002894	abnormal otolith morphology	0.575087963	1.153658206
ENSG00000117906	RCN2 subnetwork	0.574166646	1.153684568
GO:0046718	viral entry into host cell	0.574688157	1.153688358
GO:0001756	somitogenesis	0.936133787	1.153694224
MP:0002184	abnormal innervation	0.93605477	1.153703072
ENSG00000099960	SLC7A4 subnetwork	0.575207991	1.15372557
ENSG00000141384	TAF4B subnetwork	0.574257455	1.153752039
MP:0001938	delayed sexual maturation	0.574914668	1.153754753
ENSG00000197265	GTF2E2 subnetwork	0.936050461	1.153797252
GO:0032845	negative regulation of homeostatic process	0.574668289	1.153797554
MP:0000161	scoliosis	0.574514458	1.153859744
ENSG00000169976	SF3B5 subnetwork	0.574435128	1.153887454
ENSG00000138308	PLA2G12B subnetwork	0.936049575	1.153895716
MP:0001264	increased body size	0.574665813	1.153954342
MP:0003918	decreased kidney weight	0.576487817	1.153982121
ENSG00000172594	SMPDL3A subnetwork	0.936048995	1.153994196
GO:0016725	oxidoreductase activity, acting on CH or CH2 groups	0.936046524	1.154088426
GO:0009100	glycoprotein metabolic process	0.935883589	1.154101929
GO:0006334	nucleosome assembly	0.935987722	1.154110115
ENSG00000122952	ZWINT subnetwork	0.935837895	1.154166311
MP:0003237	abnormal lens epithelium morphology	0.935402261	1.154172361
GO:0006487	protein N-linked glycosylation	0.935376713	1.154219698
MP:0002961	abnormal axon guidance	0.935535589	1.154223247
MP:0000285	abnormal heart valve morphology	0.93582167	1.154252049
MP:0003044	impaired basement membrane formation	0.935736295	1.154252412
GO:0072132	mesenchyme morphogenesis	0.935374373	1.154318298
MP:0002746	abnormal semilunar valve morphology	0.935725397	1.154329633
MP:0008042	abnormal NK T cell physiology	0.935345418	1.154387014
ENSG000000023191	RNH1 subnetwork	0.9352971	1.154442925
GO:0005096	GTPase activator activity	0.576787744	1.154475894
GO:0006721	terpenoid metabolic process	0.935290199	1.154528753
MP:0001523	impaired righting response	0.935165979	1.154597898
ENSG00000141404	GNAL subnetwork	0.935250986	1.154601777
ENSG000000018408	WWTR1 subnetwork	0.935142346	1.154675214
ENSG000000068028	RASSF1 subnetwork	0.57802991	1.15469785
ENSG000000087191	PSMC5 subnetwork	0.578149622	1.154751284

ENSG00000179899	ENSG00000179899 subnetwork	0.57793595	1.15476609
MP:0002786	abnormal Leydig cell morphology	0.935135365	1.154769638
KEGG_GAP_JUNCTION	KEGG_GAP_JUNCTION	0.577899871	1.154834348
GO:0005283	sodium:amino acid symporter activity	0.935121703	1.154859805
GO:0031235	intrinsic to internal side of plasma membrane	0.577118658	1.154915369
ENSG00000132963	POMP subnetwork	0.934989976	1.154920486
REACTOME_SIGNALING_BY_BMP	REACTOME_SIGNALING_BY_BMP	0.577877447	1.154936435
GO:0001881	receptor recycling	0.935111236	1.154945713
KEGG_PYRIMIDINE_METABOLISM	KEGG_PYRIMIDINE_METABOLISM	0.577212154	1.15497563
GO:0032956	regulation of actin cytoskeleton organization	0.577665885	1.155006088
MP:0000272	abnormal aorta morphology	0.577583359	1.155013532
ENSG00000100146	SOX10 subnetwork	0.934982382	1.155014964
GO:0042307	positive regulation of protein import into nucleus	0.577856693	1.155045313
ENSG00000078668	VDAC3 subnetwork	0.934913385	1.155053874
GO:0001539	ciliary or flagellar motility	0.577819932	1.155140693
REACTOME_HORMONE_LIGAND_BINDING	REACTOME_HORMONE_LIGAND_BINDING_RECEPTORS	0.934908228	1.155148379
ENSG00000168298	HIST1H1E subnetwork	0.577572499	1.155156313
ENSG00000179776	CDH5 subnetwork	0.57857106	1.155161465
ENSG00000144597	EAF1 subnetwork	0.578530935	1.155168919
REACTOME_TRANSPORT_OF_RIBONUCLEOPROTEINS	REACTOME_TRANSPORT_OF_RIBONUCLEOPROTEINS_IN	0.579100851	1.155190335
ENSG00000166147	FBN1 subnetwork	0.579198418	1.15520988
GO:0000084	S phase of mitotic cell cycle	0.934878157	1.155217243
MP:0000740	impaired smooth muscle contractility	0.577505247	1.155224689
ENSG00000100201	DDX17 subnetwork	0.934565082	1.155231862
ENSG00000163527	STT3B subnetwork	0.934733906	1.15525663
MP:0000538	abnormal urinary bladder morphology	0.934650567	1.155265634
ENSG00000172201	ID4 subnetwork	0.578502484	1.155270983
REACTOME_SCF:BETA:TRCP_MEDIATED_DEGRADATION	REACTOME_SCF:BETA:TRCP_MEDIATED_DEGRADATION	0.934834601	1.155273287
GO:0006000	fructose metabolic process	0.578685257	1.155275601
MP:0000231	hypertension	0.578938322	1.155300473
GO:0060021	palate development	0.934474774	1.155309772
MP:0006107	abnormal fetal atrioventricular canal morphology	0.934555633	1.155317875
ENSG00000031698	SARS subnetwork	0.579079536	1.155319293
MP:0004609	vertebral fusion	0.9343831	1.155323064
REACTOME_CELL_CYCLE_CHECKPOINTS	REACTOME_CELL_CYCLE_CHECKPOINTS	0.934226922	1.155328255
ENSG00000108651	UTP6 subnetwork	0.577493722	1.155333694
GO:0071482	cellular response to light stimulus	0.579029115	1.155380772
MP:0008277	abnormal sternum ossification	0.934354828	1.155400548
ENSG00000179222	MAGED1 subnetwork	0.934221139	1.155427153
ENSG00000000971	CFH subnetwork	0.578927416	1.155443004
GO:0006665	sphingolipid metabolic process	0.934085016	1.155483733
ENSG00000164107	HAND2 subnetwork	0.934211655	1.155521788
GO:0031293	membrane protein intracellular domain proteolysis	0.934074841	1.155569826
GO:0014706	striated muscle tissue development	0.57892535	1.155585573
GO:0046676	negative regulation of insulin secretion	0.934056084	1.155647371
GO:0030864	cortical actin cytoskeleton	0.933980208	1.155673546
MP:0005140	decreased cardiac muscle contractility	0.93383409	1.155704497
REACTOME_FGFR1C_LIGAND_BINDING_AND_ACTIVATION	REACTOME_FGFR1C_LIGAND_BINDING_AND_ACTIVATION	0.933940747	1.155733984
ENSG00000106089	STX1A subnetwork	0.93380462	1.155773514
REACTOME_PRESYNAPTIC_NICOTINIC_ACETYLCHOLINE_RECEPTOR_BINDING	REACTOME_PRESYNAPTIC_NICOTINIC_ACETYLCHOLINE_RECEPTOR_BINDING	0.933789993	1.155855393
GO:0016572	histone phosphorylation	0.933687114	1.155929226
GO:0005911	cell-cell junction	0.933776031	1.155950137
MP:0000778	abnormal nervous system tract morphology	0.933666856	1.156006855
GO:0060425	lung morphogenesis	0.933600326	1.156063073

ENSG00000114573	ATP6V1A subnetwork	0.580071261	1.156082266
GO:0033005	positive regulation of mast cell activation	0.933548662	1.156115015
ENSG00000146425	DYNLT1 subnetwork	0.93352898	1.156184109
ENSG00000074800	ENO1 subnetwork	0.580030411	1.156184246
ENSG00000131187	F12 subnetwork	0.933250785	1.156207665
GO:0048738	cardiac muscle tissue development	0.933474453	1.156231785
ENSG00000163736	PPBP subnetwork	0.579918215	1.156246627
ENSG00000128602	SMO subnetwork	0.579863796	1.156260963
MP:0003451	absent olfactory bulb	0.933196322	1.156268222
GO:0043576	regulation of respiratory gaseous exchange	0.933422187	1.156270896
MP:0004986	abnormal osteoblast morphology	0.579791899	1.156295547
GO:0072657	protein localization in membrane	0.933374258	1.156297154
MP:0000681	abnormal thyroid gland morphology	0.580025335	1.156326723
ENSG00000145649	GZMA subnetwork	0.93318752	1.156354515
ENSG00000121621	KIF18A subnetwork	0.933179973	1.1564494
ENSG00000162736	NCSTN subnetwork	0.932965082	1.156485374
GO:0009595	detection of biotic stimulus	0.933159532	1.156509992
ENSG00000049449	RCN1 subnetwork	0.933148937	1.156579173
GO:0003170	heart valve development	0.932956786	1.156584592
REACTOME_PLATELET_ADHESION	REACTOME_PLATELET_ADHESION_TO_EXPOSED_COLL	0.93295583	1.156683827
GO:0061036	positive regulation of cartilage development	0.932950165	1.156778788
MP:0000652	enlarged sebaceous gland	0.932910154	1.156813696
ENSG00000170458	CD14 subnetwork	0.932879794	1.156891521
ENSG00000073792	IGF2BP2 subnetwork	0.580564396	1.156910734
GO:0006890	retrograde vesicle-mediated transport, Golgi to ER	0.932845615	1.156960776
GO:0010959	regulation of metal ion transport	0.932706507	1.15697914
MP:0001405	impaired coordination	0.932832175	1.157030043
GO:0032874	positive regulation of stress-activated MAPK cascade	0.932697819	1.157069883
GO:0060442	branching involved in prostate gland morphogenesis	0.932691005	1.157156349
GO:0046961	proton-transporting ATPase activity, rotational mechanis	0.932602902	1.157187017
MP:0010392	prolonged QRS complex duration	0.93254338	1.15721769
REACTOME_PKA_ACTIVATION_IN	REACTOME_PKA_ACTIVATION_IN_GLUCAGON_SIGNALL	0.932351629	1.157223224
REACTOME_REGULATED_PROTEC	REACTOME_REGULATED_PROTEOLYSIS_OF_P75NTR	0.581078502	1.15722372
GO:0007128	meiotic prophase I	0.581162804	1.157229484
ENSG00000155463	OXA1L subnetwork	0.580838052	1.157233383
GO:0010039	response to iron ion	0.581024998	1.157292088
MP:0005121	decreased circulating prolactin level	0.93250484	1.157299897
MP:0001982	decreased chemically-elicited antinociception	0.932333968	1.157301151
REACTOME_NUCLEAR_IMPORT_C	REACTOME_NUCLEAR_IMPORT_OF_REV_PROTEIN	0.58095782	1.157320032
MP:0000849	abnormal cerebellum morphology	0.932305464	1.157370501
GO:0035235	ionotropic glutamate receptor signaling pathway	0.932065284	1.157446077
ENSG00000111752	PHC1 subnetwork	0.932229569	1.157466277
REACTOME_DOWNREGULATION_	REACTOME_DOWNREGULATION_OF_ERRB2ERBB3_SIGN	0.932157902	1.157466919
GO:0043292	contractile fiber	0.932300943	1.157469931
GO:0005902	microvillus	0.932008996	1.157476796
GO:0015078	hydrogen ion transmembrane transporter activity	0.931976576	1.157533305
MP:0000297	abnormal atrioventricular cushion morphology	0.931890769	1.15753825
ENSG00000164751	PEX2 subnetwork	0.93186983	1.157594773
ENSG00000071243	ING3 subnetwork	0.581432049	1.157646187
MP:0001916	intracerebral hemorrhage	0.931254625	1.157660215
ENSG00000033050	ABCF2 subnetwork	0.931326884	1.15768536
GO:0050912	detection of chemical stimulus involved in sensory perce	0.931868716	1.157694292
MP:0000627	abnormal mammary gland morphology	0.58236877	1.157695412
GO:0034622	cellular macromolecular complex assembly	0.582487696	1.157721281

GO:2000736	regulation of stem cell differentiation	0.931645803	1.157734973
GO:0014061	regulation of norepinephrine secretion	0.931163853	1.157738966
ENSG00000134871	COL4A2 subnetwork	0.582142228	1.157745626
MP:0008329	decreased somatotroph cell number	0.931251112	1.157755506
ENSG00000136271	DDX56 subnetwork	0.582313413	1.15777718
ENSG00000197535	MYO5A subnetwork	0.931864951	1.157785229
ENSG00000108061	SHOC2 subnetwork	0.93159436	1.157795838
ENSG00000140307	GTF2A2 subnetwork	0.931039346	1.157800534
GO:0001654	eye development	0.93061682	1.157803891
ENSG00000075292	ZNF638 subnetwork	0.931121644	1.157804165
REACTOME_GLYCOLYSIS	REACTOME_GLYCOLYSIS	0.582255169	1.157805141
GO:0015980	energy derivation by oxidation of organic compounds	0.931530158	1.15782661
REACTOME_RECYCLING_OF_BILE	REACTOME_RECYCLING_OF_BILE_ACIDS_AND_SALTS	0.930984606	1.157827022
ENSG00000011304	PTBP1 subnetwork	0.581612379	1.15783376
ENSG00000163530	DPPA2 subnetwork	0.930943383	1.157844909
MP:0000820	abnormal choroid plexus morphology	0.930562087	1.15785622
ENSG00000204086	RPA4 subnetwork	0.931857328	1.157880482
GO:0006643	membrane lipid metabolic process	0.930906893	1.157888621
ENSG000000085721	RRN3 subnetwork	0.582138236	1.157901467
ENSG00000134248	HBXIP subnetwork	0.930543599	1.157943
GO:0004861	cyclin-dependent protein kinase inhibitor activity	0.582082157	1.157963113
GO:0015988	energy coupled proton transport, against electrochemical gradient	0.930477197	1.157965211
GO:0006766	vitamin metabolic process	0.930883869	1.157975381
ENSG00000112304	ACOT13 subnetwork	0.582040056	1.158058435
GO:0015991	ATP hydrolysis coupled proton transport	0.930477197	1.158064933
ENSG00000132694	ARHGEF11 subnetwork	0.58187821	1.158080808
GO:0046128	purine ribonucleoside metabolic process	0.930440019	1.158112996
ENSG00000168243	GNG4 subnetwork	0.930385853	1.158173988
GO:0000077	DNA damage checkpoint	0.581856135	1.158189655
ENSG00000137403	HLA-F subnetwork	0.582030544	1.158200916
MP:0004754	abnormal kidney collecting duct morphology	0.930314481	1.158257236
ENSG000000008056	SYN1 subnetwork	0.930376733	1.158265139
ENSG000000068796	KIF2A subnetwork	0.930311342	1.158352718
GO:0006297	nucleotide-excision repair, DNA gap filling	0.930277204	1.158379287
MP:0000189	hypoglycemia	0.582862013	1.158399462
GO:0007157	heterophilic cell-cell adhesion	0.930222231	1.158436019
ENSG00000101557	USP14 subnetwork	0.930137684	1.158471217
MP:0003934	abnormal pancreas development	0.930082517	1.15851073
GO:0010741	negative regulation of intracellular protein kinase cascade	0.58323764	1.158529372
ENSG00000100242	SUN2 subnetwork	0.929980524	1.158550987
MP:0002754	dilated heart right ventricle	0.930034549	1.158567488
ENSG00000105371	ICAM4 subnetwork	0.583056997	1.158586606
MP:0009285	increased gonadal fat pad weight	0.583374592	1.158622312
GO:0001975	response to amphetamine	0.929962083	1.158637931
MP:0004892	increased adiponectin level	0.583225	1.158638075
ENSG00000184985	SORCS2 subnetwork	0.583479621	1.158708507
MP:0004756	abnormal proximal convoluted tubule morphology	0.583554844	1.158727493
GO:0021680	cerebellar Purkinje cell layer development	0.92995079	1.158729201
ENSG00000164164	OTUD4 subnetwork	0.929868498	1.158734265
GO:0005903	brush border	0.583215221	1.158773699
MP:0001714	absent trophoblast giant cells	0.929805272	1.158782444
ENSG00000177156	TALDO1 subnetwork	0.583654007	1.158800215
ENSG000000085840	ORC1 subnetwork	0.929765586	1.158847879
GO:0030816	positive regulation of cAMP metabolic process	0.929747212	1.158926261

ENSG00000132603	NIP7 subnetwork	0.58385372	1.159020688
GO:0030819	positive regulation of cAMP biosynthetic process	0.929747212	1.15902622
ENSG00000146457	WTAP subnetwork	0.583921367	1.159032908
ENSG00000112096	SOD2 subnetwork	0.929707279	1.159091693
ENSG00000162992	NEUROD1 subnetwork	0.929704104	1.159183057
GO:0030705	cytoskeleton-dependent intracellular transport	0.928309351	1.159213823
ENSG00000136504	KAT7 subnetwork	0.929665481	1.159239928
GO:0009312	oligosaccharide biosynthetic process	0.928475882	1.159290774
MP:0004139	abnormal gastric parietal cell morphology	0.928284128	1.159292379
GO:0008144	drug binding	0.929628534	1.159296808
GO:0006732	coenzyme metabolic process	0.928696923	1.15934531
ENSG00000205560	CPT1B subnetwork	0.929181167	1.159366367
GO:0016894	endonuclease activity, active with either ribo- or deoxyri	0.929139957	1.159380126
GO:0046326	positive regulation of glucose import	0.929410897	1.159381203
ENSG00000163220	S100A9 subnetwork	0.929355642	1.159382013
GO:0090287	regulation of cellular response to growth factor stimulus	0.929613856	1.159392527
REACTOME_MG1_TRANSITION	REACTOME_MG1_TRANSITION	0.928281589	1.159392552
ENSG00000178127	NDUFV2 subnetwork	0.928669419	1.159402263
ENSG00000167965	MLST8 subnetwork	0.929295469	1.15941735
ENSG00000183691	NOG subnetwork	0.92956903	1.159432171
ENSG00000205220	PSMB10 subnetwork	0.928924984	1.15943437
GO:0005779	integral to peroxisomal membrane	0.927992865	1.159439018
MP:0004981	decreased neuronal precursor cell number	0.929116849	1.159450009
REACTOME_DNA_REPLICATION_F	REACTOME_DNA_REPLICATION_PRE:INITIATION	0.928281589	1.159492741
GO:0005251	delayed rectifier potassium channel activity	0.929069854	1.159498316
ENSG00000153234	NR4A2 subnetwork	0.928900158	1.159512911
GO:0031231	intrinsic to peroxisomal membrane	0.927992865	1.159539246
ENSG00000183779	ZNF703 subnetwork	0.927939023	1.15958762
GO:0007616	long-term memory	0.928278514	1.159592948
KEGG_VIBRIO_CHOLERAЕ_INFECT	KEGG_VIBRIO_CHOLERAЕ_INFECTION	0.92789707	1.159653294
MP:0010413	complete atrioventricular septal defect	0.9282746	1.159680207
ENSG00000137055	PLAA subnetwork	0.92786564	1.159714656
ENSG00000065135	GNAI3 subnetwork	0.927785835	1.159741439
GO:0007276	gamete generation	0.584367227	1.159750201
GO:0043200	response to amino acid stimulus	0.927743013	1.159807143
MP:0004022	abnormal cone electrophysiology	0.927635997	1.159816641
MP:0005598	decreased ventricle muscle contractility	0.584578701	1.159854995
GO:0051048	negative regulation of secretion	0.927585539	1.159865064
ENSG00000099331	MYO9B subnetwork	0.927567052	1.159943772
ENSG00000132507	EIF5A subnetwork	0.92750035	1.159961934
MP:0005123	increased circulating growth hormone level	0.585029056	1.159995975
REACTOME_THE_CITRIC_ACID_TC	REACTOME_THE_CITRIC_ACID_TCA_CYCLE_AND_RESPIR	0.584572556	1.160004028
GO:0016776	phosphotransferase activity, phosphate group as accept	0.58470547	1.160008055
ENSG00000172766	NAA16 subnetwork	0.927488813	1.160040664
GO:0008610	lipid biosynthetic process	0.58488684	1.160045631
ENSG00000107779	BMPR1A subnetwork	0.600183775	1.160060178
ENSG00000105298	C19orf29 subnetwork	0.584805254	1.160060403
ENSG00000206286	VPS52 subnetwork	0.600100199	1.160061494
MP:0002163	abnormal gland morphology	0.585219857	1.160080483
ENSG00000100401	RANGAP1 subnetwork	0.5849907	1.160118089
MP:0003194	abnormal frequency of paradoxical sleep	0.92746964	1.160119408
ENSG00000170421	KRT8 subnetwork	0.585164088	1.160135498
REACTOME_GLOBAL_GENOMIC_I	REACTOME_GLOBAL_GENOMIC_NER_GG:NER	0.927417818	1.160176532
ENSG00000206214	ENSG00000206214 subnetwork	0.600100199	1.160213295

ENSG00000163535	SGOL2 subnetwork	0.92741708	1.160276936
MP:0002759	abnormal caudal vertebrae morphology	0.92714355	1.160332439
ENSG00000112478	ENSG00000112478 subnetwork	0.600100199	1.160365135
GO:0006518	peptide metabolic process	0.927414796	1.160377358
GO:0001754	eye photoreceptor cell differentiation	0.927367252	1.160417208
ENSG00000173889	PHC3 subnetwork	0.927129665	1.160419913
ENSG00000187741	FANCA subnetwork	0.927088203	1.160477098
GO:0001968	fibronectin binding	0.600071785	1.160477749
ENSG00000158869	FCER1G subnetwork	0.927366229	1.160517659
GO:0060347	heart trabecula formation	0.58561638	1.160527022
GO:0072210	metanephric nephron development	0.926862889	1.160527455
MP:0002651	abnormal sciatic nerve morphology	0.600583883	1.160562459
ENSG00000107404	DVL1 subnetwork	0.926742141	1.160563929
ENSG00000157087	ATP2B2 subnetwork	0.927077988	1.16056893
GO:0010863	positive regulation of phospholipase C activity	0.926818643	1.160576007
GO:0004364	glutathione transferase activity	0.585855401	1.160576408
REACTOME_ACTIVATION_OF_CHAPERONES_BY_I	REACTOME_ACTIVATION_OF_CHAPERONES_BY_I	0.927002823	1.160587165
GO:0006349	regulation of gene expression by genetic imprinting	0.60006943	1.160623118
GO:0001619	lysosphingolipid and lysophosphatidic acid receptor activ	0.599988041	1.160637601
ENSG00000067082	KLF6 subnetwork	0.58557746	1.160642436
GO:0033327	Leydig cell differentiation	0.926718606	1.16066014
ENSG00000091592	NLRP1 subnetwork	0.600833799	1.160669456
ENSG00000106683	LIMK1 subnetwork	0.600689694	1.160672247
ENSG00000143520	FLG2 subnetwork	0.926560997	1.160674985
GO:0043623	cellular protein complex assembly	0.585821843	1.160718595
GO:0048596	embryonic camera-type eye morphogenesis	0.926689679	1.160734708
MP:0000920	abnormal myelination	0.926525157	1.160749567
GO:0000793	condensed chromosome	0.585773898	1.160753553
ENSG00000136011	STAB2 subnetwork	0.599982998	1.160769936
MP:0001053	abnormal neuromuscular synapse morphology	0.600826204	1.160788545
ENSG00000174989	FBXW8 subnetwork	0.926492674	1.160828495
GO:0010470	regulation of gastrulation	0.926429743	1.160855434
REACTOME_RNA_POLYMERASE_I_TRANSCRIPTION_INIT	REACTOME_RNA_POLYMERASE_I_TRANSCRIPTION_INIT	0.599750562	1.160867287
ENSG00000204843	DCTN1 subnetwork	0.598956368	1.16088953
REACTOME_GOLGI_TO_ER_RETROGRADE_TRANSPORT	REACTOME_GOLGI_TO_ER_RETROGRADE_TRANSPORT	0.593389109	1.160893448
GO:0050997	quaternary ammonium group binding	0.599980094	1.160902305
GO:0051028	mRNA transport	0.593636084	1.160908971
ENSG00000125450	NUP85 subnetwork	0.593576862	1.160910414
ENSG00000103549	RNF40 subnetwork	0.599627636	1.160916001
ENSG00000127603	MACF1 subnetwork	0.599564671	1.16093709
ENSG00000148688	RPP30 subnetwork	0.926426525	1.160951721
REACTOME_RAS_ACTIVATION_UOPN_CA2_INFUX_THRC	REACTOME_RAS_ACTIVATION_UOPN_CA2_INFUX_THRC	0.593307055	1.160955912
GO:0071103	DNA conformation change	0.926327211	1.160957004
GO:0051219	phosphoprotein binding	0.599722367	1.16096043
GO:0015684	ferrous iron transport	0.601052943	1.160962217
GO:0009295	nucleoid	0.593715149	1.160967059
ENSG00000101654	RNMT subnetwork	0.599948276	1.160969221
GO:0031960	response to corticosteroid stimulus	0.598788656	1.160972569
GO:0030667	secretory granule membrane	0.598918142	1.160982811
GO:0006338	chromatin remodeling	0.594086372	1.161000926
ENSG00000164077	MON1A subnetwork	0.593835461	1.161005291
MP:0005226	abnormal vertebral arch development	0.926301018	1.161027308
REACTOME_COPI_MEDIATED_TRANSPORT	REACTOME_COPI_MEDIATED_TRANSPORT	0.593389109	1.161047127
MP:0000060	delayed bone ossification	0.599174704	1.16105063

GO:0018410	C-terminal protein amino acid modification	0.593571485	1.161050821
GO:0016591	DNA-directed RNA polymerase II, holoenzyme	0.599370714	1.161059394
ENSG00000005249	PRKAR2B subnetwork	0.926252082	1.161071614
MP:0004030	induced chromosome breakage	0.594220022	1.161072184
ENSG00000004799	PDK4 subnetwork	0.594030683	1.161075112
REACTOME_PROTEIN_FOLDING	REACTOME_PROTEIN_FOLDING	0.599558325	1.161076157
ENSG00000099795	NDUFB7 subnetwork	0.586481277	1.161078366
REACTOME_DCC_MEDIATED_ATT	REACTOME_DCC_MEDIATED_ATTRACTIVE_SIGNALING	0.599236584	1.161095082
ENSG00000168807	SNTB2 subnetwork	0.599943401	1.161095101
GO:0031650	regulation of heat generation	0.593299222	1.161096398
GO:0032494	response to peptidoglycan	0.598907574	1.161102362
ENSG00000056345	ENSG00000056345 subnetwork	0.594343033	1.161103767
ENSG00000171786	NHLH1 subnetwork	0.598764423	1.161111184
MP:0002575	increased circulating ketone body level	0.586416734	1.161113344
GO:0005769	early endosome	0.601271033	1.161122729
ENSG00000156304	SCAF4 subnetwork	0.599329711	1.16112641
GO:0001660	fever generation	0.594535407	1.161147086
GO:0016667	oxidoreductase activity, acting on a sulfur group of dono	0.92623035	1.161154947
GO:0045745	positive regulation of G-protein coupled receptor protei	0.586565492	1.161157246
ENSG00000171195	MUC7 subnetwork	0.593993486	1.161162545
MP:0003985	renal fibrosis	0.599512647	1.161162821
ENSG00000101349	PAK7 subnetwork	0.601233556	1.161169935
ENSG00000170871	KIAA0232 subnetwork	0.598620737	1.161173845
GO:0051188	cofactor biosynthetic process	0.586259368	1.161176628
GO:0030259	lipid glycosylation	0.586368028	1.16118853
GO:0000178	exosome (RNase complex)	0.5991737	1.161202938
ENSG00000134243	SORT1 subnetwork	0.598576418	1.161214708
GO:0071453	cellular response to oxygen levels	0.598727582	1.161218327
ENSG00000166200	COPS2 subnetwork	0.594473323	1.161221253
GO:0000045	autophagic vacuole assembly	0.605501235	1.161229391
GO:0050830	defense response to Gram-positive bacterium	0.60557223	1.161240914
ENSG00000143815	LBR subnetwork	0.586756579	1.161241296
GO:0031652	positive regulation of heat generation	0.593299222	1.161250166
GO:0045026	plasma membrane fusion	0.926226739	1.161255636
ENSG00000122565	CBX3 subnetwork	0.60544129	1.161256816
ENSG00000204310	AGPAT1 subnetwork	0.605044067	1.161259096
GO:0006302	double-strand break repair	0.605370922	1.161264771
ENSG00000152464	RPP38 subnetwork	0.605331595	1.161272727
REACTOME_GLYCOPHINGOLIPID	REACTOME_GLYCOPHINGOLIPID_METABOLISM	0.926135988	1.161299974
GO:0032970	regulation of actin filament-based process	0.605274833	1.161300169
GO:0050886	endocrine process	0.586251688	1.161318858
GO:0001707	mesoderm formation	0.593263473	1.161324503
ENSG00000099940	SNAP29 subnetwork	0.586720058	1.161329851
REACTOME_TAT:MEDIATED_ELO	REACTOME_TAT:MEDIATED_ELONGATION_OF_THE_HIV	0.587317467	1.16133262
ENSG00000068903	SIRT2 subnetwork	0.92608558	1.161335646
ENSG00000146047	HIST1H2BA subnetwork	0.926002589	1.161353977
ENSG00000143546	S100A8 subnetwork	0.590015988	1.161359702
ENSG00000123374	CDK2 subnetwork	0.598572495	1.161360651
GO:0042692	muscle cell differentiation	0.59812283	1.161361546
GO:0017119	Golgi transport complex	0.590120456	1.161371505
ENSG00000114480	GBE1 subnetwork	0.592312465	1.161375696
GO:0006949	syncytium formation	0.589953069	1.161387853
KEGG_VASOPRESSIN_REGULATED	KEGG_VASOPRESSIN_REGULATED_WATER_REABSORPTI	0.592172237	1.161405255
ENSG00000078967	UBE2D4 subnetwork	0.605236331	1.16140556

ENSG00000206255	ENSG00000206255 subnetwork	0.605044067	1.161410006
GO:0018208	peptidyl-proline modification	0.592247139	1.161417009
MP:0002691	small stomach	0.598531829	1.161427821
MP:0009009	absent estrous cycle	0.592942815	1.161431412
ENSG00000109805	NCAPG subnetwork	0.601494696	1.161434919
GO:0000976	transcription regulatory region sequence-specific DNA bi	0.925975707	1.161441707
ENSG00000175550	DRAP1 subnetwork	0.597995613	1.161443407
ENSG00000114698	PLSCR4 subnetwork	0.592870444	1.16145281
GO:0048407	platelet-derived growth factor binding	0.592781347	1.161467586
GO:0030145	manganese ion binding	0.594931061	1.161467829
ENSG00000142875	PRKACB subnetwork	0.593262029	1.161471718
MP:0005287	narrow eye opening	0.589922574	1.161482616
REACTOME_HIV:1_TRANSCRIPTIO	REACTOME_HIV:1_TRANSCRIPTION_ELONGATION	0.587317467	1.161488024
GO:0004181	metallocarboxypeptidase activity	0.602013506	1.161492752
ENSG00000102878	HSF4 subnetwork	0.587087373	1.161497791
GO:0071391	cellular response to estrogen stimulus	0.593191148	1.161506359
ENSG00000159459	UBR1 subnetwork	0.601930738	1.161507315
ENSG00000184897	H1FX subnetwork	0.598116904	1.161507624
REACTOME_INCRETIN_SYNTHESIS	REACTOME_INCRETIN_SYNTHESIS_SECRETION_AND_IN	0.925941876	1.16151644
GO:0030663	COPI coated vesicle membrane	0.605220761	1.16152397
GO:0043279	response to alkaloid	0.59215087	1.161526211
MP:0004024	aneuploidy	0.602171771	1.161535448
ENSG00000120896	SORBS3 subnetwork	0.593068083	1.161535913
ENSG00000171431	KRT20 subnetwork	0.592075219	1.161541014
GO:0005200	structural constituent of cytoskeleton	0.590594951	1.16154358
MP:0005441	increased urine calcium level	0.598506581	1.161547556
ENSG00000166477	LEO1 subnetwork	0.601858311	1.161548008
GO:0005921	gap junction	0.598424886	1.161555643
ENSG00000206324	AGPAT1 subnetwork	0.605044067	1.161560957
GO:0002548	monocyte chemotaxis	0.591022532	1.1615625
REACTOME_NEPNS2_INTERACTS	REACTOME_NEPNS2_INTERACTS_WITH_THE_CELLULAR	0.597958517	1.161569813
ENSG00000126698	DNAJC8 subnetwork	0.587048145	1.161579652
ENSG00000127526	SLC35E1 subnetwork	0.605832379	1.161583387
ENSG00000138346	DNA2 subnetwork	0.58989626	1.161584066
ENSG00000163435	ELF3 subnetwork	0.59054094	1.161591696
GO:0051085	chaperone mediated protein folding requiring cofactor	0.590440213	1.161593238
ENSG00000184363	PKP3 subnetwork	0.594916553	1.161594873
GO:0051130	positive regulation of cellular component organization	0.592761272	1.161595068
GO:0035966	response to topologically incorrect protein	0.593163146	1.161613886
GO:0016624	oxidoreductase activity, acting on the aldehyde or oxo gr	0.92594184	1.161617213
ENSG00000196628	TCF4 subnetwork	0.925824626	1.161635575
MP:0001270	distended abdomen	0.590328025	1.161636267
ENSG00000198042	MAK16 subnetwork	0.590401031	1.161641374
ENSG00000106125	FAM188B subnetwork	0.601709098	1.161642493
REACTOME_FORMATION_OF_HIV	REACTOME_FORMATION_OF_HIV:1_ELONGATION_COM	0.587317467	1.161643469
GO:0006303	double-strand break repair via nonhomologous end joini	0.589771117	1.161647122
ENSG00000135821	GLUL subnetwork	0.59098645	1.161650485
MP:0005440	increased glycogen level	0.602923893	1.161666884
ENSG00000155957	TMBIM4 subnetwork	0.597922628	1.161669954
MP:0009780	abnormal chondrocyte physiology	0.605020359	1.161672949
GO:0070008	serine-type exopeptidase activity	0.602167735	1.161674066
GO:0032984	macromolecular complex disassembly	0.5876375	1.161684056
REACTOME_G:PROTEIN_BETAGA	REACTOME_G:PROTEIN_BETAGAMMA_SIGNALLING	0.598410246	1.161688568
ENSG00000072134	EPN2 subnetwork	0.592069197	1.16168857

MP:0001939	secondary sex reversal	0.589882996	1.161692205
MP:0000729	abnormal myogenesis	0.587573534	1.161692308
ENSG00000102804	TSC22D1 subnetwork	0.592582021	1.161692532
MP:0002666	increased circulating aldosterone level	0.6018574	1.161693232
ENSG00000151923	TIAL1 subnetwork	0.925800625	1.161701666
ENSG00000127329	PTPRB subnetwork	0.587039711	1.1617017
ENSG00000170275	CRTAP subnetwork	0.592744701	1.161702692
ENSG00000094804	CDC6 subnetwork	0.925735042	1.16171136
ENSG00000198947	DMD subnetwork	0.591345968	1.161715843
GO:0018149	peptide cross-linking	0.602578809	1.161731698
ENSG00000149182	ARFGAP2 subnetwork	0.597281281	1.161734895
GO:0030742	GTP-dependent protein binding	0.602800702	1.161741683
GO:0006260	DNA replication	0.604981467	1.16174597
GO:0043303	mast cell degranulation	0.925678698	1.161755772
GO:0016614	oxidoreductase activity, acting on CH-OH group of donor	0.603078106	1.161756651
GO:0045017	glycerolipid biosynthetic process	0.58974714	1.161761962
MP:0002135	abnormal kidney morphology	0.602710556	1.161762787
MP:0008227	absent anterior commissure	0.597693884	1.16176664
ENSG00000069974	RAB27A subnetwork	0.592017763	1.161776421
GO:0030308	negative regulation of cell growth	0.590976305	1.1617917
ENSG00000108829	LRRC59 subnetwork	0.602553816	1.16179196
ENSG00000211973	ENSG00000211973 subnetwork	0.597632494	1.161794501
ENSG00000109332	UBE2D3 subnetwork	0.5978175	1.161797974
MP:0002230	abnormal primitive streak formation	0.59117672	1.161800293
ENSG00000168214	RBPJ subnetwork	0.591466842	1.161800664
MP:0000063	decreased bone mineral density	0.590801167	1.16180149
ENSG00000140284	SLC27A2 subnetwork	0.597895729	1.161802998
GO:0016458	gene silencing	0.602467184	1.161806553
GO:0005932	microtubule basal body	0.595298216	1.161806656
ENSG00000184270	HIST2H2AB subnetwork	0.597472917	1.161810765
ENSG00000160208	RRP1B subnetwork	0.602919476	1.161811897
GO:0006869	lipid transport	0.591653963	1.161817457
GO:0034508	centromere complex assembly	0.591261525	1.161818665
GO:0046323	glucose import	0.925667833	1.16183057
ENSG00000037280	FLT4 subnetwork	0.588031299	1.161838235
GO:0071326	cellular response to monosaccharide stimulus	0.60496104	1.161838513
REACTOME_SHC:MEDIATED_SIGN	REACTOME_SHC:MEDIATED_SIGNALLING	0.592744293	1.161843501
GO:0010595	positive regulation of endothelial cell migration	0.595425099	1.161851314
MP:0006280	abnormal digit development	0.597264157	1.161861506
ENSG00000134363	FST subnetwork	0.603209576	1.161865954
ENSG00000077522	ACTN2 subnetwork	0.591345919	1.161870265
ENSG00000082258	CCNT2 subnetwork	0.59515495	1.161875826
MP:0004471	short nasal bone	0.603356928	1.161875896
GO:0005529	GO:0005529	0.588277496	1.161880262
MP:0005479	decreased circulating triiodothyronine level	0.588378585	1.161885355
GO:0004518	nuclease activity	0.591591939	1.161892107
ENSG00000159377	PSMB4 subnetwork	0.925649715	1.161901042
ENSG00000086102	NFX1 subnetwork	0.589744886	1.161910157
ENSG00000067829	IDH3G subnetwork	0.602452267	1.16191906
ENSG00000072210	ALDH3A2 subnetwork	0.592007252	1.161924047
ENSG00000112182	BACH2 subnetwork	0.590957701	1.161932952
ENSG00000139625	MAP3K12 subnetwork	0.591852517	1.161933856
REACTOME_INITIAL_TRIGGERING	REACTOME_INITIAL_TRIGGERING_OF_COMPLEMENT	0.59745707	1.161937352
MP:0006386	absent somites	0.595286098	1.161940299

GO:0060590	ATPase regulator activity	0.587999119	1.161946784
ENSG00000211979	ENSG00000211979 subnetwork	0.597632494	1.161947368
GO:0032799	low-density lipoprotein receptor particle metabolic process	0.588250011	1.161975408
GO:0048846	axon extension involved in axon guidance	0.925600986	1.161980207
ENSG00000182185	RAD51B subnetwork	0.924152008	1.161980525
ENSG00000156709	AIFM1 subnetwork	0.603320137	1.161981747
ENSG00000196532	HIST1H3C subnetwork	0.597231324	1.16198815
GO:0071331	cellular response to hexose stimulus	0.60496104	1.161989597
ENSG00000162923	WDR26 subnetwork	0.591797913	1.161995218
GO:0032479	regulation of type I interferon production	0.588197367	1.161997059
GO:0016706	oxidoreductase activity, acting on paired donors, with iron	0.589575868	1.162008268
ENSG00000168061	SAC3D1 subnetwork	0.58858562	1.162014158
ENSG00000068438	FTSJ1 subnetwork	0.58795359	1.162021931
MP:0009907	decreased tongue size	0.925557889	1.162028998
GO:0008329	pattern recognition receptor activity	0.589721245	1.162031729
GO:0007431	salivary gland development	0.588525955	1.162049158
ENSG00000123975	CKS2 subnetwork	0.588489444	1.162057448
GO:0070001	aspartic-type peptidase activity	0.925509322	1.162073457
MP:0001096	abnormal glossopharyngeal ganglion morphology	0.924149564	1.162077211
ENSG00000130702	LAMA5 subnetwork	0.59200237	1.162078353
ENSG00000172071	EIF2AK3 subnetwork	0.589529417	1.162116564
ENSG00000196331	HIST1H2BO subnetwork	0.589696722	1.162126667
GO:0071333	cellular response to glucose stimulus	0.60496104	1.162140721
ENSG00000197153	HIST1H3J subnetwork	0.597231324	1.162141164
MP:0004399	abnormal cochlear outer hair cell morphology	0.607423755	1.162148685
ENSG00000133119	RFC3 subnetwork	0.587943182	1.16216397
ENSG00000162236	STX5 subnetwork	0.589050639	1.162166311
GO:0021591	ventricular system development	0.924711779	1.162166507
GO:0004190	aspartic-type endopeptidase activity	0.925509322	1.162174366
MP:0001522	impaired swimming	0.924145808	1.162178261
ENSG00000163002	NUP35 subnetwork	0.606449024	1.16219354
ENSG00000124507	PACSIN1 subnetwork	0.606337736	1.16220968
GO:0060317	cardiac epithelial to mesenchymal transition	0.924668611	1.162219711
MP:0008518	retinal outer nuclear layer degeneration	0.603600134	1.162226277
ENSG00000196781	TLE1 subnetwork	0.604913311	1.162226847
ENSG00000158402	CDC25C subnetwork	0.606417493	1.162234043
ENSG00000068400	GRIPAP1 subnetwork	0.607385952	1.162234456
GO:0005761	mitochondrial ribosome	0.589516691	1.162238229
ENSG00000160868	CYP3A4 subnetwork	0.603701824	1.162250749
ENSG00000166165	CKB subnetwork	0.604865487	1.162254456
ENSG00000105426	PTPRS subnetwork	0.588767802	1.162259615
GO:0010948	negative regulation of cell cycle process	0.924137167	1.162270632
ENSG00000151746	BICD1 subnetwork	0.92549941	1.162270951
REACTOME_SYNTHESIS_SECRETION_AND_DEACYLATION	REACTOME_SYNTHESIS_SECRETION_AND_DEACYLATION	0.924884013	1.16227407
MP:0004484	altered response of heart to induced stress	0.925441797	1.162276359
ENSG00000124789	NUP153 subnetwork	0.589201345	1.162278126
GO:0031112	positive regulation of microtubule polymerization or depolymerization	0.924604987	1.162285963
ENSG00000124693	HIST1H3B subnetwork	0.597231324	1.162294218
ENSG00000152700	SAR1B subnetwork	0.589031711	1.162294754
GO:0045540	regulation of cholesterol biosynthetic process	0.604127182	1.162301381
GO:0043508	negative regulation of JUN kinase activity	0.92409107	1.162306488
ENSG00000127564	PKMYT1 subnetwork	0.607358974	1.162307294
ENSG00000125835	SNRPB subnetwork	0.606588652	1.162315175
ENSG00000168286	THAP11 subnetwork	0.604000785	1.162330641

ENSG00000119541	VPS4B subnetwork	0.606331915	1.162347521
ENSG00000167193	CRK subnetwork	0.604079126	1.162348574
REACTOME_NCAM_SIGNALING_F	REACTOME_NCAM_SIGNALING_FOR_NEURITE_OUT:GR	0.925413018	1.162355598
MP:0004837	abnormal neural fold formation	0.92459061	1.162365264
MP:0002573	behavioral despair	0.92448769	1.162366339
MP:0000837	abnormal hypothalamus morphology	0.924070459	1.162381491
MP:0008533	abnormal anterior visceral endoderm morphology	0.604849404	1.162386157
GO:0000313	organellar ribosome	0.589516691	1.162393276
GO:0033540	fatty acid beta-oxidation using acyl-CoA oxidase	0.925375156	1.162395761
KEGG_NOTCH_SIGNALING_PATH	KEGG_NOTCH_SIGNALING_PATHWAY	0.589442751	1.162414943
ENSG00000137845	ADAM10 subnetwork	0.607337184	1.162425499
ENSG00000164258	NDUFS4 subnetwork	0.589014395	1.162436582
MP:0005322	abnormal serotonin level	0.925327598	1.162440275
ENSG00000198366	HIST1H3A subnetwork	0.597231324	1.162447313
ENSG00000103035	PSMD7 subnetwork	0.603986564	1.162456026
MP:0003038	decreased infarction size	0.588922666	1.162458272
MP:0003270	intestinal obstruction	0.925144142	1.162459814
GO:0019200	carbohydrate kinase activity	0.924050089	1.162465205
ENSG00000185043	CIB1 subnetwork	0.604820329	1.162465843
GO:0051020	GTPase binding	0.589363245	1.16248332
ENSG00000107371	EXOSC3 subnetwork	0.607303863	1.16249838
ENSG00000078699	CBFA2T2 subnetwork	0.595936325	1.162508251
MP:0000558	abnormal tibia morphology	0.925312163	1.162523892
MP:0004180	failure of initiation of embryo turning	0.604364839	1.162553718
GO:0072074	kidney mesenchyme development	0.924027173	1.162557634
ENSG00000164330	EBF1 subnetwork	0.60480596	1.16256507
GO:0002209	behavioral defense response	0.923789937	1.162569614
GO:0005518	collagen binding	0.604465562	1.162571615
ENSG00000122126	OCRL subnetwork	0.603966394	1.162574928
MP:0005534	decreased body temperature	0.596137695	1.162584136
ENSG00000130227	XPO7 subnetwork	0.607268233	1.162590721
ENSG00000155229	MMS19 subnetwork	0.596067227	1.162592397
ENSG00000112727	ENSG00000112727 subnetwork	0.597231324	1.162600448
MP:0005365	abnormal bile salt homeostasis	0.923990936	1.162623978
GO:0006501	C-terminal protein lipidation	0.595929554	1.162635331
ENSG00000104267	CA2 subnetwork	0.923921286	1.162642478
GO:0007080	mitotic metaphase plate congression	0.92376628	1.16264903
GO:0045765	regulation of angiogenesis	0.604676867	1.162665972
REACTOME_REGULATION_OF_SIC	REACTOME_REGULATION_OF_SIGNALING_BY_CBL	0.60721835	1.162670123
ENSG00000164346	NSA2 subnetwork	0.596859774	1.162694437
ENSG00000177105	RHOG subnetwork	0.604803753	1.162716387
ENSG00000101856	PGRMC1 subnetwork	0.607767514	1.162723388
MP:0005097	polychromatophilia	0.607093199	1.162725269
MP:0009397	increased trophoblast giant cell number	0.604621522	1.162732717
ENSG000000012963	UBR7 subnetwork	0.606994037	1.162733402
GO:0009267	cellular response to starvation	0.607178803	1.162743065
GO:0006040	amino sugar metabolic process	0.596646476	1.162745615
GO:0051181	cofactor transport	0.923765719	1.162750218
ENSG00000197409	HIST1H3D subnetwork	0.597231324	1.162753623
GO:0021536	diencephalon development	0.923702654	1.162764383
ENSG00000129562	DAD1 subnetwork	0.596835344	1.162801582
GO:0035587	purinergic receptor signaling pathway	0.923691263	1.162843837
ENSG00000148835	TAF5 subnetwork	0.606975618	1.162845286
ENSG00000090061	CCNK subnetwork	0.596498358	1.162856201

GO:0043149	stress fiber assembly	0.596788209	1.162875791
GO:0033344	cholesterol efflux	0.596640403	1.162898971
ENSG00000182572	HIST1H3I subnetwork	0.597231324	1.162906839
MP:0001951	abnormal breathing pattern	0.923661998	1.16293201
MP:0004154	renal tubular necrosis	0.596472824	1.162963452
ENSG00000106633	GCK subnetwork	0.596427257	1.163024545
GO:0072395	signal transduction involved in cell cycle checkpoint	0.923654387	1.163024552
MP:0004930	small epididymis	0.596635954	1.163045772
ENSG00000178458	ENSG00000178458 subnetwork	0.597231324	1.163060095
GO:0072404	signal transduction involved in G1/S transition checkpoint	0.923654387	1.163125816
GO:0072329	monocarboxylic acid catabolic process	0.923612325	1.16318356
GO:0010962	regulation of glucan biosynthetic process	0.923437243	1.163207629
ENSG00000196966	HIST1H3E subnetwork	0.597231324	1.163213391
GO:0048592	eye morphogenesis	0.923574512	1.163241313
GO:0005979	regulation of glycogen biosynthetic process	0.923437243	1.163308945
MP:0001257	increased body length	0.923305458	1.163337399
GO:0032885	regulation of polysaccharide biosynthetic process	0.923437243	1.163410279
ENSG00000078403	MLLT10 subnetwork	0.923289711	1.16343004
REACTOME_RECRUITMENT_OF_MITOTIC_CENTROSOME	REACTOME_RECRUITMENT_OF_MITOTIC_CENTROSOME	0.923239022	1.163461706
GO:0042625	ATPase activity, coupled to transmembrane movement c	0.92308604	1.163490196
GO:0060713	labyrinthine layer morphogenesis	0.923059115	1.163552379
ENSG00000137825	ITPKA subnetwork	0.922972984	1.163562277
REACTOME_CENTROSOME_MATURATION	REACTOME_CENTROSOME_MATURATION	0.923239022	1.163563088
GO:0060968	regulation of gene silencing	0.922931836	1.163633194
GO:0007272	ensheathment of neurons	0.922867295	1.1636431
ENSG00000095319	NUP188 subnetwork	0.608354318	1.163686391
ENSG00000111052	LIN7A subnetwork	0.922475268	1.163718821
GO:0019438	aromatic compound biosynthetic process	0.922421287	1.163737462
GO:0008366	axon ensheathment	0.922867295	1.163744551
MP:0006254	thin cerebral cortex	0.9228225	1.163819862
ENSG00000215425	DDX39B subnetwork	0.922391312	1.163821528
ENSG00000175115	PACS1 subnetwork	0.922700632	1.163861516
ENSG00000168546	GFRA2 subnetwork	0.608491211	1.163865873
GO:0010596	negative regulation of endothelial cell migration	0.922811841	1.163912626
ENSG00000215412	ENSG00000215412 subnetwork	0.922391312	1.163923057
ENSG00000152413	HOMER1 subnetwork	0.60872195	1.163978773
ENSG00000094796	KRT31 subnetwork	0.608622973	1.163980583
ENSG00000198563	DDX39B subnetwork	0.922391312	1.164024603
ENSG00000131473	ACLY subnetwork	0.608799779	1.164041672
ENSG00000164032	H2AFZ subnetwork	0.922348742	1.164086903
MP:0001683	absent mesoderm	0.608912194	1.164104555
GO:0042770	signal transduction in response to DNA damage	0.922203669	1.164106816
ENSG00000151532	VTG1A subnetwork	0.92232844	1.164166667
MP:0002750	exophthalmos	0.609005021	1.164167421
GO:0071837	HMG box domain binding	0.9221842	1.164186595
MP:0001629	abnormal heart rate	0.92216312	1.164253295
ENSG00000132464	ENAM subnetwork	0.922126321	1.164306913
REACTOME_E2F_MEDIATED_REGULATION_OF_DNA_REPLICATION	REACTOME_E2F_MEDIATED_REGULATION_OF_DNA_REPLICATION	0.921867129	1.164333741
KEGG_Cysteine_and_Methionine_Metabolism	KEGG_Cysteine_and_Methionine_Metabolism	0.922125419	1.164408555
GO:0030193	regulation of blood coagulation	0.921844616	1.164417955
GO:0032331	negative regulation of chondrocyte differentiation	0.922107429	1.164479658
GO:0022011	myelination in peripheral nervous system	0.921702692	1.164481614
ENSG00000115211	EIF2B4 subnetwork	0.92181048	1.164510917
GO:0010828	positive regulation of glucose transport	0.922099099	1.164550773

GO:0032292	peripheral nervous system axon ensheathment	0.921702692	1.164583333
MP:0000024	lowered ear position	0.921677501	1.164637023
ENSG00000064601	CTSA subnetwork	0.921585859	1.164647038
KEGG_GLYCOLYSIS_GLUONEOGE	KEGG_GLYCOLYSIS_GLUONEOGENESIS	0.60944955	1.164719959
GO:0006555	methionine metabolic process	0.921582146	1.16474443
GO:0004520	endodeoxyribonuclease activity	0.60957717	1.164763321
MP:0010872	increased trabecular bone mass	0.609390539	1.164767141
MP:0000790	abnormal stratification in cerebral cortex	0.921559862	1.1648331
ENSG00000198356	ASNA1 subnetwork	0.92126583	1.164842657
ENSG00000167491	GATAD2A subnetwork	0.921518279	1.164869352
ENSG00000168259	DNAJC7 subnetwork	0.921469761	1.164918721
GO:0009113	purine base biosynthetic process	0.921252618	1.164922633
GO:0010518	positive regulation of phospholipase activity	0.921419768	1.164946246
KEGG_ETHER_LIPID_METABOLISM	KEGG_ETHER_LIPID_METABOLISM	0.92124637	1.16502448
MP:0002731	megacolon	0.921243985	1.165121973
GO:0015301	anion:anion antiporter activity	0.921218923	1.165184505
ENSG00000101152	DNAJC5 subnetwork	0.92087069	1.165283002
ENSG00000169862	CTNND2 subnetwork	0.921209495	1.165286401
GO:0033116	endoplasmic reticulum-Golgi intermediate compartment	0.921125597	1.16530523
ENSG00000130707	ASS1 subnetwork	0.921075415	1.165345928
ENSG00000133103	COG6 subnetwork	0.611072644	1.165354331
MP:0003732	abnormal retinal outer plexiform layer morphology	0.920849898	1.165367454
MP:0002280	abnormal intercostal muscle morphology	0.920671072	1.165370144
REACTOME_CYTOSOLIC_SULFONAT	REACTOME_CYTOSOLIC_SULFONATION_OF_SMALL_MO	0.920771892	1.165373174
GO:0001578	microtubule bundle formation	0.920493355	1.16537721
ENSG00000178209	PLEC subnetwork	0.610048354	1.165412464
ENSG00000154174	TOMM70A subnetwork	0.920448274	1.165422319
ENSG00000143006	DMRTB1 subnetwork	0.609982381	1.165427389
GO:0004623	phospholipase A2 activity	0.920632851	1.165432747
GO:0022613	ribonucleoprotein complex biogenesis	0.610316551	1.165445263
GO:0042026	protein refolding	0.92107462	1.165447866
ENSG00000169891	REPS2 subnetwork	0.917630377	1.165459573
GO:0005753	mitochondrial proton-transporting ATP synthase comple	0.611048524	1.165459592
ENSG00000135333	EPHA7 subnetwork	0.917772814	1.165502107
GO:0007351	tripartite regional subdivision	0.920442955	1.165519958
MP:0002790	decreased circulating follicle stimulating hormone level	0.917529105	1.165523751
ENSG00000178741	COX5A subnetwork	0.91738443	1.165526478
GO:0072376	protein activation cascade	0.917608556	1.165535558
GO:0006684	sphingomyelin metabolic process	0.611000995	1.165551969
GO:0051056	regulation of small GTPase mediated signal transduction	0.610291895	1.165557135
ENSG00000189283	FHIT subnetwork	0.917496737	1.165577801
GO:0070168	negative regulation of biomineral tissue development	0.610242118	1.165597931
MP:0000633	abnormal pituitary gland morphology	0.917357503	1.165602494
GO:0030299	intestinal cholesterol absorption	0.610662716	1.165620155
GO:0008595	anterior/posterior axis specification, embryo	0.920442955	1.165621991
REACTOME_RHO_GTPASE_CYCLE	REACTOME_RHO_GTPASE_CYCLE	0.610581564	1.165622173
ENSG00000118762	PKD2 subnetwork	0.918768658	1.165623082
MP:0009887	abnormal palatal shelf fusion at midline	0.917317394	1.165638999
ENSG00000136861	CDK5RAP2 subnetwork	0.920205554	1.165656743
MP:0003638	abnormal response/metabolism to endogenous compou	0.611427297	1.165658065
MP:0003043	hypoalgesia	0.918649482	1.165660907
ENSG00000197860	SGTB subnetwork	0.918745451	1.16569023
REACTOME_INWARDLY_RECTIFYII	REACTOME_INWARDLY_RECTIFYING_K_CHANNELS	0.920329326	1.165694773
GO:0046620	regulation of organ growth	0.61099644	1.165702479

ENSG00000078369	GNB1 subnetwork	0.917290619	1.165710647
GO:0055013	cardiac muscle cell development	0.918995746	1.165712407
GO:0051322	anaphase	0.920433218	1.165715286
ENSG00000134899	ERCC5 subnetwork	0.918488159	1.165726443
MP:0005202	lethargy	0.611306056	1.165726639
GO:0048640	negative regulation of developmental growth	0.92018291	1.165728172
REACTOME_PROCESSING_OF_INT	REACTOME_PROCESSING_OF_INTRONLESS_PRE:MRNAS	0.919909073	1.165736685
REACTOME_SEMA3A:PLEXIN_REP	REACTOME_SEMA3A:PLEXIN_REPULSION_SIGNALING_B	0.918641299	1.16575
ENSG00000077080	ACTL6B subnetwork	0.918452769	1.165771694
REACTOME_SIGNALING_BY_RHO	REACTOME_SIGNALING_BY_RHO_GTPASES	0.610581564	1.16577281
GO:0072663	establishment of protein localization to peroxisome	0.917009498	1.165773286
MP:0004046	abnormal mitosis	0.918567746	1.165782086
MP:0005409	darkened coat color	0.919870214	1.165786246
REACTOME_RNA_POLYMERASE_I	REACTOME_RNA_POLYMERASE_I_TRANSCRIPTION	0.91978579	1.16579201
ENSG00000185008	ROBO2 subnetwork	0.917269128	1.16580427
KEGG_OLFACTORY_TRANSDUCTIC	KEGG_OLFACTORY_TRANSDUCTION	0.917110089	1.165807047
ENSG00000148606	POLR3A subnetwork	0.611426922	1.165808491
GO:0055006	cardiac cell development	0.918995746	1.165814626
GO:0018958	phenol-containing compound metabolic process	0.917226352	1.16582323
ENSG00000161939	C17orf49 subnetwork	0.611919825	1.165824091
GO:0034377	plasma lipoprotein particle assembly	0.61098644	1.165827199
MP:0009247	meteorism	0.920181964	1.165830268
ENSG00000167900	TK1 subnetwork	0.919366109	1.165857293
GO:0071855	neuropeptide receptor binding	0.916839593	1.165865342
GO:0007612	learning	0.919769945	1.16586787
GO:0032838	cell projection cytoplasm	0.919438648	1.165869051
ENSG0000016082	ISL1 subnetwork	0.918452595	1.165873991
GO:0006625	protein targeting to peroxisome	0.917009498	1.165875736
MP:0002837	dystrophic cardiac calcinosis	0.918322956	1.165903107
GO:0042149	cellular response to glucose starvation	0.611873634	1.16590997
ENSG00000189285	ENSG00000189285 subnetwork	0.920166953	1.165914864
GO:0031069	hair follicle morphogenesis	0.918416121	1.165914875
ENSG00000100632	ERH subnetwork	0.916804289	1.165915084
GO:0060412	ventricular septum morphogenesis	0.919753769	1.165948125
GO:0051604	protein maturation	0.919361937	1.165955115
REACTOME_TRANSPORT_OF_VIT	REACTOME_TRANSPORT_OF_VITAMINS_NUCLEOSIDES_	0.919292407	1.165974049
GO:0065005	protein-lipid complex assembly	0.61098644	1.165977784
GO:0072662	protein localization to peroxisome	0.917009498	1.165978204
ENSG00000117601	SERPINC1 subnetwork	0.916778307	1.166
GO:0072207	metanephric epithelium development	0.918318584	1.166001053
GO:0000279	M phase	0.611831033	1.166002322
ENSG00000144182	LIPT1 subnetwork	0.916677082	1.166005803
ENSG00000103326	SOLH subnetwork	0.919731077	1.166024012
GO:0008180	signalosome	0.613305656	1.166044536
ENSG00000087258	GNAO1 subnetwork	0.916641084	1.166064363
GO:0021533	cell differentiation in hindbrain	0.919672192	1.16607362
REACTOME_POLYMERASE_SWITC	REACTOME_POLYMERASE_SWITCHING	0.613136131	1.166074417
GO:0051302	regulation of cell division	0.611794394	1.166094697
GO:0060561	apoptotic process involved in morphogenesis	0.613238022	1.166110968
REACTOME_G1S_TRANSITION	REACTOME_G1S_TRANSITION	0.916587275	1.16611414
ENSG00000198055	GRK6 subnetwork	0.613479994	1.166117617
MP:0002086	abnormal extraembryonic tissue morphology	0.610979715	1.166121948
GO:0042462	eye photoreceptor cell development	0.916456027	1.166138962
ENSG00000175073	VCPIP1 subnetwork	0.916544401	1.166150734

MP:0008546	abnormal vesicle-mediated transport	0.61342706	1.166164736
ENSG00000140650	PMM2 subnetwork	0.61359328	1.166173443
GO:0072331	signal transduction by p53 class mediator	0.916402657	1.166175565
REACTOME_LEADING_STRAND_S'	REACTOME_LEADING_STRAND_SYNTHESIS	0.613136131	1.166224569
ENSG00000131931	THAP1 subnetwork	0.916255814	1.166226797
ENSG00000170348	TMED10 subnetwork	0.916395422	1.166260556
MP:0005296	abnormal humerus morphology	0.916121391	1.166273647
ENSG00000127184	COX7C subnetwork	0.916229336	1.166294211
GO:0043489	RNA stabilization	0.612925019	1.16632101
GO:0048617	embryonic foregut morphogenesis	0.916117562	1.166371876
REACTOME_POLYMERASE_SWITC	REACTOME_POLYMERASE_SWITCHING_ON_THE_C:STR	0.613136131	1.166374759
ENSG00000137876	RSL24D1 subnetwork	0.613790658	1.166415798
GO:0009263	deoxyribonucleotide biosynthetic process	0.916069598	1.166417319
GO:0005109	frizzled binding	0.613102912	1.166454147
GO:0048255	mRNA stabilization	0.612925019	1.16647127
ENSG00000159176	CSRP1 subnetwork	0.914605609	1.166472766
ENSG00000039650	PNKP subnetwork	0.915949061	1.166477423
GO:0042288	MHC class I protein binding	0.61398514	1.166482315
REACTOME_GO_AND_EARLY_G1	REACTOME_GO_AND_EARLY_G1	0.914701056	1.166493346
ENSG00000105135	ILVBL subnetwork	0.614663815	1.166497495
ENSG00000105185	PDCD5 subnetwork	0.915287671	1.166497842
GO:0048010	vascular endothelial growth factor receptor signaling pat	0.916044745	1.166497976
ENSG00000111790	FGFR1OP2 subnetwork	0.613901515	1.166523025
ENSG00000165606	DRGX subnetwork	0.914580087	1.166544733
ENSG00000167565	SERTAD3 subnetwork	0.915769425	1.166547808
GO:0043304	regulation of mast cell degranulation	0.915918827	1.166549296
ENSG00000111057	KRT18 subnetwork	0.614332795	1.166550971
GO:0045730	respiratory burst	0.914958982	1.16656093
ENSG00000025434	NR1H3 subnetwork	0.614611331	1.166563865
REACTOME_ASParAGINE_N:LINK	REACTOME_ASParAGINE_N:LINKED_GLYCOSYLATION	0.612891168	1.166576472
GO:0051606	detection of stimulus	0.915270765	1.166578576
MP:0004509	abnormal pelvic girdle bone morphology	0.91590273	1.166603574
MP:0004965	inner cell mass degeneration	0.614286931	1.166610954
GO:0032319	regulation of Rho GTPase activity	0.91489384	1.166619669
GO:0009220	pyrimidine ribonucleotide biosynthetic process	0.915731923	1.166619706
GO:0051970	negative regulation of transmission of nerve impulse	0.914561815	1.166625529
ENSG00000147044	CASK subnetwork	0.915648459	1.166629975
GO:0071843	cellular component biogenesis at cellular level	0.612472261	1.166634429
GO:0008543	fibroblast growth factor receptor signaling pathway	0.614586547	1.166643105
MP:0010090	increased circulating creatine kinase level	0.915575338	1.16665786
GO:0031369	translation initiation factor binding	0.915479735	1.166663731
ENSG00000110841	PPFIBP1 subnetwork	0.914372435	1.166669606
ENSG00000104435	STMN2 subnetwork	0.614243174	1.166670953
GO:0006826	iron ion transport	0.915267743	1.166676945
GO:0050840	extracellular matrix binding	0.914536563	1.166693115
ENSG00000117594	HSD11B1 subnetwork	0.915201966	1.166718062
GO:0006516	glycoprotein catabolic process	0.914482923	1.166721037
ENSG00000182979	MTA1 subnetwork	0.612890576	1.166726804
ENSG00000106588	PSMA2 subnetwork	0.914350895	1.16675485
ENSG00000006451	RALA subnetwork	0.614566225	1.166760925
GO:0000076	DNA replication checkpoint	0.614213645	1.166769547
REACTOME_TRANSCRIPTION:COU	REACTOME_TRANSCRIPTION:COUPLED_NER_TC:NER	0.914211299	1.166815135
GO:0051291	protein heterooligomerization	0.612618611	1.166819237
GO:0021696	cerebellar cortex morphogenesis	0.914319633	1.1668357

ENSG00000156049	GNA14 subnetwork	0.612862489	1.166844954
REACTOME_RESPIRATORY_ELECT	REACTOME_RESPIRATORY_ELECTRON_TRANSPORT_ATP	0.612787499	1.166847126
GO:0042304	regulation of fatty acid biosynthetic process	0.914166825	1.166873953
ENSG00000161634	DCD subnetwork	0.612766889	1.166920201
ENSG00000108433	GOSR2 subnetwork	0.914146726	1.166946013
ENSG00000172399	MYO22 subnetwork	0.914049359	1.166969563
ENSG00000171916	LGALS9C subnetwork	0.914043242	1.167054879
MP:0000808	abnormal hippocampus development	0.615046057	1.167092754
GO:0030834	regulation of actin filament depolymerization	0.913939635	1.167110837
ENSG00000170298	LGALS9B subnetwork	0.914043242	1.167157858
REACTOME_CDK:MEDIATED_PHO	REACTOME_CDK:MEDIATED_PHOSPHORYLATION_AND_	0.913933283	1.167209425
MP:0000539	distended urinary bladder	0.615196698	1.167212588
GO:0002320	lymphoid progenitor cell differentiation	0.913921029	1.167299206
ENSG00000090104	RGS1 subnetwork	0.913887614	1.167358108
MP:0005543	corneal thinning	0.912962581	1.167383813
ENSG00000176124	DLEU1 subnetwork	0.912896939	1.167425113
ENSG00000146731	CCT6A subnetwork	0.61534798	1.16743514
MP:0009304	increased retroperitoneal fat pad weight	0.913868681	1.167439089
GO:0051205	protein insertion into membrane	0.912858928	1.167466419
GO:0045177	apical part of cell	0.913423599	1.167499779
GO:0042562	hormone binding	0.913817449	1.167511256
GO:0030278	regulation of ossification	0.912803673	1.167516571
ENSG00000148334	PTGES2 subnetwork	0.913530335	1.167520311
GO:0019005	SCF ubiquitin ligase complex	0.615523374	1.167520544
GO:0006026	aminoglycan catabolic process	0.913711597	1.167521632
GO:0016485	protein processing	0.91339744	1.167554319
ENSG00000112818	MEP1A subnetwork	0.913262417	1.167566254
GO:0043524	negative regulation of neuron apoptotic process	0.913180201	1.167576641
MP:0008027	abnormal spinal cord white matter morphology	0.91365566	1.167593819
GO:0016101	diterpenoid metabolic process	0.913347838	1.167600035
GO:0015697	quaternary ammonium group transport	0.912782432	1.167606505
REACTOME_ORGANIC_CATIONAN	REACTOME_ORGANIC_CATIONANIONZWITTERION_TRAI	0.910752821	1.167626218
ENSG00000065613	SLK subnetwork	0.615511826	1.167651214
ENSG00000094914	AAAS subnetwork	0.615926051	1.167652721
ENSG00000007237	GAS7 subnetwork	0.61586552	1.16767424
GO:0051004	regulation of lipoprotein lipase activity	0.910739459	1.167698645
ENSG00000177889	UBE2N subnetwork	0.912777505	1.167705295
GO:0000722	telomere maintenance via recombination	0.912647169	1.167712846
ENSG00000101413	RPRD1B subnetwork	0.615797736	1.167715019
REACTOME_TRANSPORT_OF_GLU	REACTOME_TRANSPORT_OF_GLUCOSE_AND_OTHER_SL	0.911808035	1.167746217
MP:0002286	cryptorchism	0.912626218	1.167780725
GO:0031268	pseudopodium organization	0.910734782	1.167793232
ENSG00000188843	ENSG00000188843 subnetwork	0.911982177	1.167805008
ENSG00000116329	OPRD1 subnetwork	0.912774342	1.167808522
MP:0003105	abnormal heart atrium morphology	0.910480506	1.167815685
GO:0051797	regulation of hair follicle development	0.615773003	1.167820003
ENSG00000070961	ATP2B1 subnetwork	0.911793041	1.167831858
REACTOME_AMINO_ACID_TRANS	REACTOME_AMINO_ACID_TRANSPORT_ACROSS_THE_P	0.912323675	1.167844507
MP:0003666	impaired sperm capacitation	0.910315718	1.167849863
ENSG00000008952	SEC62 subnetwork	0.912610853	1.167866301
ENSG00000074071	MRPS34 subnetwork	0.910592551	1.167867269
MP:0003911	increased drinking behavior	0.911971329	1.167886215
GO:0031649	heat generation	0.616108068	1.167887848
ENSG00000065150	IPO5 subnetwork	0.911376287	1.167888446

ENSG00000089169	RPH3A subnetwork	0.911478896	1.167895715
ENSG00000132424	PNISR subnetwork	0.910729784	1.167896695
GO:0005546	phosphatidylinositol-4,5-bisphosphate binding	0.910449274	1.167901453
GO:0030514	negative regulation of BMP signaling pathway	0.911330493	1.167912166
ENSG00000133019	CHRM3 subnetwork	0.912291433	1.167912428
ENSG00000136938	ANP32B subnetwork	0.910267527	1.167931218
GO:0003044	regulation of systemic arterial blood pressure mediated	0.911789992	1.167935216
GO:0042398	cellular modified amino acid biosynthetic process	0.912217196	1.167958245
ENSG00000131069	ACSS2 subnetwork	0.911112956	1.167965636
MP:0001891	hydrocephaly	0.912610827	1.167969579
ENSG00000181827	RFX7 subnetwork	0.911296432	1.16797131
ENSG00000100911	PSME2 subnetwork	0.911222563	1.167990613
GO:0060338	regulation of type I interferon-mediated signaling pathw	0.910245152	1.167994859
MP:0001661	extended life span	0.911772574	1.168007612
KEGG_DILATED_CARDIOMYOPATHY	KEGG_DILATED_CARDIOMYOPATHY	0.911703191	1.168022484
MP:0005103	abnormal retinal pigmentation	0.910123269	1.168051246
MP:0001957	apnea	0.909453279	1.168055186
MP:0001408	stereotypic behavior	0.910217985	1.168058511
ENSG00000174125	TLR1 subnetwork	0.912592512	1.168068453
GO:0007507	heart development	0.909916691	1.168078219
GO:0035195	gene silencing by miRNA	0.909710102	1.168085861
GO:0008227	G-protein coupled amine receptor activity	0.90961664	1.168100772
GO:0042730	fibrinolysis	0.909553775	1.168106813
GO:0070373	negative regulation of ERK1 and ERK2 cascade	0.910100509	1.168114914
MP:0001144	vagina atresia	0.909438302	1.168145519
ENSG00000022840	RNF10 subnetwork	0.909355182	1.168151566
ENSG00000182132	KCNIP1 subnetwork	0.909888587	1.168172949
ENSG00000013375	PGM3 subnetwork	0.910087478	1.168205196
ENSG00000174483	BBS1 subnetwork	0.90935498	1.168255236
ENSG00000007402	CACNA2D2 subnetwork	0.909343115	1.168350049
ENSG00000119888	EPCAM subnetwork	0.616506768	1.168389994
GO:0009409	response to cold	0.909332147	1.16844044
REACTOME_P2Y_RECEPTORS	REACTOME_P2Y_RECEPTORS	0.909306556	1.168513094
ENSG00000102362	SYTL4 subnetwork	0.616502408	1.168533487
GO:0019637	organophosphate metabolic process	0.90924725	1.168554688
ENSG00000075711	DLG1 subnetwork	0.90904944	1.168557983
ENSG00000089685	BIRC5 subnetwork	0.909171336	1.168591849
ENSG00000168447	SCNN1B subnetwork	0.909037267	1.168652873
MP:0003694	failure to hatch from the zona pellucida	0.908994081	1.168707815
KEGG_PPAR_SIGNALING_PATHWAY	KEGG_PPAR_SIGNALING_PATHWAY	0.908913478	1.168713918
ENSG00000215612	HMX1 subnetwork	0.616996122	1.168729161
ENSG00000196510	ANAPC7 subnetwork	0.908907441	1.16881773
ENSG00000126562	WNK4 subnetwork	0.616952901	1.168821342
MP:0003087	absent allantois	0.616890533	1.168875064
ENSG00000135336	ORC3 subnetwork	0.90887593	1.168886026
GO:0019674	NAD metabolic process	0.908778982	1.168901031
ENSG00000182872	RBM10 subnetwork	0.617216806	1.168925503
GO:0006333	chromatin assembly or disassembly	0.908733665	1.168969347
ENSG00000211949	ENSG00000211949 subnetwork	0.908689334	1.169015461
ENSG00000134769	DTNA subnetwork	0.908255359	1.169016714
ENSG00000131626	PPFIA1 subnetwork	0.90853377	1.169032172
ENSG00000164818	HEATR2 subnetwork	0.908376257	1.16904
ENSG00000171914	TLN2 subnetwork	0.908208251	1.169076198
MP:0003169	abnormal scala media morphology	0.9084812	1.169091636

GO:0042228	interleukin-8 biosynthetic process	0.617705427	1.169105587
ENSG00000125124	BBS2 subnetwork	0.908360966	1.16911281
GO:0008195	phosphatidate phosphatase activity	0.908687179	1.169119346
ENSG00000081014	AP4E1 subnetwork	0.908061576	1.169128502
REACTOME_UNWINDING_OF_DN	REACTOME_UNWINDING_OF_DNA	0.617502486	1.169170619
GO:0015012	heparan sulfate proteoglycan biosynthetic process	0.908200138	1.169175707
GO:0044437	vacuolar part	0.908010606	1.169192458
MP:0000135	decreased compact bone thickness	0.617703872	1.169255415
ENSG00000214078	CPNE1 subnetwork	0.617628248	1.169257883
MP:0010380	inner cell mass apoptosis	0.617486885	1.169275641
ENSG00000148229	POLE3 subnetwork	0.907985305	1.169287557
ENSG00000215104	ENSG00000215104 subnetwork	0.618044068	1.169345543
MP:0005300	abnormal corneal stroma morphology	0.907953971	1.169378225
GO:0008217	regulation of blood pressure	0.907616655	1.169385122
GO:0008354	germ cell migration	0.618007318	1.169399257
GO:0008158	hedgehog receptor activity	0.61788768	1.169404228
GO:0006221	pyrimidine nucleotide biosynthetic process	0.907889828	1.16941998
GO:0031056	regulation of histone modification	0.618203973	1.169439109
ENSG00000149557	FEZ1 subnetwork	0.907835697	1.169439502
ENSG00000159200	RCAN1 subnetwork	0.907544322	1.169444692
ENSG00000170558	CDH2 subnetwork	0.617939913	1.16944658
GO:0030835	negative regulation of actin filament depolymerization	0.907763037	1.169454578
GO:0009250	glucan biosynthetic process	0.907534006	1.169544322
ENSG00000164404	GDF9 subnetwork	0.90726725	1.169635862
ENSG00000108179	PPIF subnetwork	0.618515402	1.169638971
GO:0005978	glycogen biosynthetic process	0.907534006	1.16964842
ENSG00000164919	COX6C subnetwork	0.907468286	1.169663521
MP:0005627	increased circulating potassium level	0.618461369	1.169667093
GO:0010970	microtubule-based transport	0.907349702	1.169674174
GO:0000266	mitochondrial fission	0.90724575	1.169726649
ENSG00000167461	RAB8A subnetwork	0.907199565	1.169741763
ENSG00000138041	SMEK2 subnetwork	0.906406959	1.169784333
ENSG00000117154	IGSF21 subnetwork	0.906599286	1.169803083
GO:0001942	hair follicle development	0.907168466	1.169814765
ENSG00000166128	RAB8B subnetwork	0.906360397	1.16983066
ENSG00000100297	MCM5 subnetwork	0.906540624	1.169840492
GO:0022405	hair cycle process	0.907168466	1.169918953
GO:0070169	positive regulation of biomineral tissue development	0.906074927	1.16992689
REACTOME_ACTIVATION_OF_THE	REACTOME_ACTIVATION_OF_THE_PRE:REPLICATIVE_CO	0.906351162	1.169934932
GO:0031272	regulation of pseudopodium assembly	0.906861963	1.16995278
GO:0019228	regulation of action potential in neuron	0.906215918	1.169978604
GO:0000049	tRNA binding	0.906315376	1.170003566
GO:0006081	cellular aldehyde metabolic process	0.907080647	1.17001158
MP:0000097	short maxilla	0.906073078	1.170022292
GO:0022404	molting cycle process	0.907168466	1.170023158
REACTOME_CELL_CYCLE_MITOTIK	REACTOME_CELL_CYCLE_MITOTIC	0.907024905	1.170075724
MP:0009969	abnormal cerebral cortex pyramidal cell morphology	0.906070534	1.170126627
ENSG00000136250	AOAH subnetwork	0.906036831	1.17019085
GO:0006486	protein glycosylation	0.905998612	1.170255084
ENSG00000197930	ERO1L subnetwork	0.905865951	1.170330062
GO:0043413	macromolecule glycosylation	0.905998612	1.170359468
GO:0045747	positive regulation of Notch signaling pathway	0.905841142	1.17042109
GO:0055024	regulation of cardiac muscle tissue development	0.905810468	1.170476445
MP:0005637	abnormal iron homeostasis	0.905554082	1.170546233

ENSG00000004939	SLC4A1 subnetwork	0.905446433	1.170556994
GO:0035924	cellular response to vascular endothelial growth factor stimulation	0.905713059	1.170578262
GO:0051057	positive regulation of small GTPase mediated signal transduction	0.905803488	1.170580887
ENSG00000122490	PQLC1 subnetwork	0.90566441	1.17060241
GO:0004984	olfactory receptor activity	0.905309494	1.170609767
GO:0060627	regulation of vesicle-mediated transport	0.905429938	1.170657026
GO:0070542	response to fatty acid	0.905262214	1.170683036
GO:0007016	cytoskeletal anchoring at plasma membrane	0.904990194	1.170684112
GO:0010458	exit from mitosis	0.905227374	1.170729529
MP:0001690	failure of somite differentiation	0.905129146	1.170740311
ENSG00000181191	PJA1 subnetwork	0.904978954	1.170788675
ENSG00000073969	NSF subnetwork	0.90492076	1.170839661
MP:0001525	impaired balance	0.904895744	1.170917456
GO:0048147	negative regulation of fibroblast proliferation	0.904820981	1.170919325
ENSG00000103460	TOX3 subnetwork	0.904734019	1.170947999
ENSG00000198846	TOX subnetwork	0.904734019	1.171052632
ENSG00000124097	ENSG00000124097 subnetwork	0.904734019	1.171157283
GO:0006091	generation of precursor metabolites and energy	0.904690845	1.171226204
GO:0043584	nose development	0.904665099	1.171272792
MP:0004599	abnormal vertebral arch morphology	0.904658412	1.171359614
GO:0060325	face morphogenesis	0.904642108	1.171450921
GO:0030673	axolemma	0.904629599	1.171542244
ENSG00000187837	HIST1H1C subnetwork	0.620941029	1.17154809
GO:0051346	negative regulation of hydrolase activity	0.620870797	1.171589167
MP:0003178	left pulmonary isomerism	0.90460049	1.171593348
GO:0006702	androgen biosynthetic process	0.621037666	1.171666667
GO:0072655	establishment of protein localization in mitochondrion	0.620826626	1.171681359
GO:0015701	bicarbonate transport	0.904592974	1.1716847
MP:0001548	hyperlipidemia	0.619699411	1.171729391
GO:0097006	regulation of plasma lipoprotein particle levels	0.904587625	1.171789483
ENSG00000184979	USP18 subnetwork	0.6208096	1.171792742
ENSG00000165672	PRDX3 subnetwork	0.621652489	1.17181679
GO:0008584	male gonad development	0.621179964	1.171817137
ENSG00000197111	PCBP2 subnetwork	0.619958674	1.171829814
GO:0006612	protein targeting to membrane	0.904581147	1.171894285
ENSG00000088256	GNA11 subnetwork	0.620794011	1.171904153
KEGG_TERPENOID_BACKBONE_BI	KEGG_TERPENOID_BACKBONE_BIOSYNTHESIS	0.621627066	1.171928034
ENSG00000151491	EPS8 subnetwork	0.619952746	1.17197978
ENSG00000167110	GOLGA2 subnetwork	0.621594396	1.171981879
MP:0002777	absent ovarian follicles	0.904573003	1.171985689
GO:0005484	SNAP receptor activity	0.620777885	1.172028374
REACTOME_RNA_POLYMERASE_I	REACTOME_RNA_POLYMERASE_III_TRANSCRIPTION_INITIATION	0.621561948	1.172042119
GO:0016746	transferase activity, transferring acyl groups	0.619914178	1.172059388
GO:0001725	stress fiber	0.621496132	1.17206408
REACTOME_MITOTIC_M:MG1_PHASE	REACTOME_MITOTIC_M:MG1_PHASES	0.904564057	1.172068164
ENSG00000002016	RAD52 subnetwork	0.621363328	1.17209525
ENSG00000186081	KRT5 subnetwork	0.904518621	1.172132761
GO:0030238	male sex determination	0.620751317	1.172139844
GO:0002704	negative regulation of leukocyte mediated immunity	0.620672446	1.172142675
ENSG00000173914	RBM4B subnetwork	0.621487751	1.172213711
ENSG00000130640	TUBGCP2 subnetwork	0.904503372	1.172215263
GO:0008286	insulin receptor signaling pathway	0.620234492	1.172230041
ENSG00000114270	COL7A1 subnetwork	0.622047135	1.172232143
GO:0050718	positive regulation of interleukin-1 beta secretion	0.622215286	1.172271104

ENSG00000147684	NDUFB9 subnetwork	0.904455752	1.172279885
GO:0002707	negative regulation of lymphocyte mediated immunity	0.620672446	1.172292546
ENSG00000105357	MYH14 subnetwork	0.620536794	1.172298248
MP:0005536	Leydig cell hypoplasia	0.622019811	1.172330654
GO:0060479	lung cell differentiation	0.620490883	1.17237145
ENSG00000138018	EPT1 subnetwork	0.62041361	1.172374312
GO:0006284	base-excision repair	0.904445203	1.172375839
GO:0051492	regulation of stress fiber assembly	0.620645167	1.17238491
GO:0050716	positive regulation of interleukin-1 secretion	0.622215286	1.17242061
ENSG00000129757	CDKN1C subnetwork	0.904394012	1.172431537
GO:0071384	cellular response to corticosteroid stimulus	0.903833869	1.172483883
GO:0007093	mitotic cell cycle checkpoint	0.90439059	1.172536472
GO:0035250	UDP-galactosyltransferase activity	0.903999125	1.172571403
GO:0071385	cellular response to glucocorticoid stimulus	0.903833869	1.172588878
ENSG00000188229	TUBB4B subnetwork	0.622583213	1.172600382
ENSG00000173894	CBX2 subnetwork	0.622678705	1.172610247
ENSG00000214021	TTL3 subnetwork	0.622444418	1.172618896
ENSG00000189367	KIAA0408 subnetwork	0.904373757	1.172623523
ENSG00000142515	KLK3 subnetwork	0.903781479	1.172640158
GO:0008406	gonad development	0.622539346	1.172660632
GO:0043588	skin development	0.904334048	1.172692686
GO:0033197	response to vitamin E	0.903778336	1.172745186
GO:0006213	pyrimidine nucleoside metabolic process	0.904296006	1.172766338
ENSG00000104064	GABPB1 subnetwork	0.903758547	1.172827839
MP:0005332	abnormal amino acid level	0.903727758	1.172897071
GO:0010770	positive regulation of cell morphogenesis involved in diff	0.622885321	1.172938703
GO:0048199	vesicle targeting, to, from or within Golgi	0.903697467	1.172975273
GO:0021697	cerebellar cortex formation	0.903660147	1.17304453
REACTOME_SCFSKP2:MEDIATED_	REACTOME_SCFSKP2:MEDIATED_DEGRADATION_OF_P2	0.903615181	1.173113799
MP:0000783	abnormal forebrain morphology	0.90356413	1.173147235
ENSG00000112312	GMNN subnetwork	0.903539277	1.173216526
GO:0060037	pharyngeal system development	0.90349649	1.173267904
MP:0008545	absent sperm flagellum	0.903471969	1.173359627
MP:0010067	increased red blood cell distribution width	0.623221667	1.173413609
GO:0000080	G1 phase of mitotic cell cycle	0.903458534	1.173455849
GO:0008033	tRNA processing	0.903332207	1.173504887
GO:0018195	peptidyl-arginine modification	0.903422257	1.17352071
GO:0003854	3-beta-hydroxy-delta5-steroid dehydrogenase activity	0.903311215	1.173551829
ENSG00000092853	CLSPN subnetwork	0.623472729	1.173601733
GO:0042987	amyloid precursor protein catabolic process	0.903286807	1.1736212
ENSG00000113555	PCDH12 subnetwork	0.903278253	1.173726457
MP:0000133	abnormal long bone metaphysis morphology	0.903251363	1.173786887
ENSG00000077514	POLD3 subnetwork	0.903175453	1.173820416
ENSG00000142945	KIF2C subnetwork	0.903138747	1.173858437
GO:0015631	tubulin binding	0.903073747	1.173887493
GO:0002478	antigen processing and presentation of exogenous pepti	0.623824371	1.173895045
MP:0001559	hyperglycemia	0.623780573	1.173968153
MP:0001326	retinal degeneration	0.903067813	1.173979363
GO:0006879	cellular iron ion homeostasis	0.903040003	1.174066762
GO:0005774	vacuolar membrane	0.902959509	1.174068922
GO:0009968	negative regulation of signal transduction	0.624076103	1.17415945
MP:0000925	abnormal floor plate morphology	0.902955364	1.174174295
GO:0051923	sulfation	0.902938527	1.174270712
ENSG00000213123	TCTEX1D2 subnetwork	0.902877639	1.174331239

GO:0045652	regulation of megakaryocyte differentiation	0.902823044	1.174364844
GO:0016338	calcium-independent cell-cell adhesion	0.902691017	1.174405136
GO:0043492	ATPase activity, coupled to movement of substances	0.902785092	1.174407434
ENSG00000134138	MEIS2 subnetwork	0.6260563	1.174450794
REACTOME_BASE:FREE_SUGAR:PHOSPHATE_REMOVAL	REACTOME_BASE:FREE_SUGAR:PHOSPHATE_REMOVAL	0.625759647	1.174456867
GO:0044440	endosomal part	0.626155283	1.174479431
GO:0004303	estradiol 17-beta-dehydrogenase activity	0.902685766	1.174510596
MP:0000780	abnormal corpus callosum morphology	0.902386905	1.174532878
MP:0010379	decreased respiratory quotient	0.626035717	1.174549149
GO:0072595	maintenance of protein localization to organelle	0.625726475	1.17456798
MP:0003070	increased vascular permeability	0.625884179	1.174568089
MP:0002878	abnormal corticospinal tract morphology	0.902482589	1.174571095
ENSG00000135945	REV1 subnetwork	0.902667782	1.174593624
GO:0090136	epithelial cell-cell adhesion	0.625652295	1.174596518
REACTOME_RNA_POLYMERASE_I_PROMOTER_CLEARANCE	REACTOME_RNA_POLYMERASE_I_PROMOTER_CLEARANCE	0.902590292	1.174600323
GO:0009303	rRNA transcription	0.625988058	1.174609425
GO:0006921	cellular component disassembly involved in apoptotic process	0.627442008	1.174622988
ENSG00000108100	CCNY subnetwork	0.902377517	1.174629413
ENSG00000160752	FDPS subnetwork	0.626273281	1.174660404
GO:0001522	pseudouridine synthesis	0.627388597	1.174683143
ENSG00000175305	CCNE2 subnetwork	0.625109743	1.174694734
ENSG00000111907	TPD52L1 subnetwork	0.627342355	1.174711624
MP:0008028	pregnancy-related premature death	0.625642213	1.174726741
GO:0006144	purine base metabolic process	0.902375861	1.174734951
ENSG00000170142	UBE2E1 subnetwork	0.62730193	1.174765467
MP:0004521	abnormal cochlear hair cell stereociliary bundle morphology	0.625340353	1.174802899
GO:0032606	type I interferon production	0.625508821	1.174815662
REACTOME_CA:DEPENDENT_EVENTS	REACTOME_CA:DEPENDENT_EVENTS	0.6251033	1.174825086
MP:0008883	abnormal enterocyte proliferation	0.624434147	1.174831275
GO:0017144	drug metabolic process	0.902361098	1.174836014
ENSG00000109193	SULT1E1 subnetwork	0.625421221	1.174837889
GO:0070997	neuron death	0.626729257	1.174844563
MP:0003988	disorganized embryonic tissue	0.627267009	1.174844681
GO:0043046	DNA methylation involved in gamete generation	0.626503582	1.174854024
ENSG00000175592	FOSL1 subnetwork	0.625613943	1.174856998
ENSG00000130810	PPAN subnetwork	0.62530055	1.174901437
GO:0071375	cellular response to peptide hormone stimulus	0.627071445	1.174930238
ENSG00000001497	LAS1L subnetwork	0.627226798	1.174930256
MP:0003119	abnormal digestive system development	0.902342864	1.174937096
GO:0048569	post-embryonic organ development	0.625081832	1.174955471
GO:0002827	positive regulation of T-helper 1 type immune response	0.62671707	1.174955584
MP:0003656	abnormal erythrocyte physiology	0.626672408	1.174971443
MP:0008451	retinal rod cell degeneration	0.627972538	1.174984167
ENSG00000105701	FKBP8 subnetwork	0.62464963	1.174996817
ENSG00000147869	CER1 subnetwork	0.627021391	1.175009514
REACTOME_GAP_JUNCTION_TRAFFICKING_AND_REGULATION	REACTOME_GAP_JUNCTION_TRAFFICKING_AND_REGULATION	0.902325	1.175024715
ENSG00000160563	MED27 subnetwork	0.626940625	1.175050749
GO:0001678	cellular glucose homeostasis	0.625052373	1.175054078
ENSG00000165966	PDZRN4 subnetwork	0.6272149	1.175066582
GO:0050802	circadian sleep/wake cycle, sleep	0.902281261	1.175098868
REACTOME_FATTY_ACYL:COA_BIOSYNTHESIS	REACTOME_FATTY_ACYL:COA_BIOSYNTHESIS	0.624625556	1.175101859
ENSG00000059378	PARP12 subnetwork	0.627959703	1.175120345
MP:0001435	no suckling reflex	0.627840996	1.175196401
GO:0032369	negative regulation of lipid transport	0.625043279	1.175203614

GO:0022410	circadian sleep/wake cycle process	0.902281261	1.175204494
ENSG00000080802	CNOT4 subnetwork	0.624946166	1.175225913
ENSG00000101868	POLA1 subnetwork	0.628175182	1.175240628
MP:0001554	increased circulating free fatty acid level	0.627947259	1.175250222
GO:0051648	vesicle localization	0.902253813	1.175278677
ENSG00000144048	DUSP11 subnetwork	0.628311309	1.175284882
ENSG00000156467	UQCRB subnetwork	0.628272226	1.175307079
MP:0002971	abnormal brown adipose tissue morphology	0.6249309	1.175356415
GO:0090342	regulation of cell aging	0.902241791	1.175370853
GO:0042626	ATPase activity, coupled to transmembrane movement c	0.902185396	1.175409099
ENSG00000159788	RGS12 subnetwork	0.902142728	1.175474328
ENSG00000067066	SP100 subnetwork	0.628816108	1.175493546
MP:0006397	disorganized long bone epiphyseal plate	0.628721376	1.175503101
ENSG00000066735	KIF26A subnetwork	0.901679277	1.175526268
GO:0009791	post-embryonic development	0.902087609	1.175535072
MP:0005537	abnormal cerebral aqueduct morphology	0.628555268	1.175547538
MP:0003886	abnormal embryonic epiblast morphology	0.628666332	1.175594937
GO:0016813	hydrolase activity, acting on carbon-nitrogen (but not pe	0.901660386	1.175609537
GO:0031057	negative regulation of histone modification	0.902062312	1.175622808
GO:0040001	establishment of mitotic spindle localization	0.901580342	1.175629836
GO:0007271	synaptic transmission, cholinergic	0.628980199	1.175648488
ENSG00000137124	ALDH1B1 subnetwork	0.901988405	1.175674582
ENSG00000105409	ATP1A3 subnetwork	0.90153366	1.175695132
MP:0000137	abnormal vertebrae morphology	0.901958666	1.175744355
REACTOME_G2M_CHECKPOINTS	REACTOME_G2M_CHECKPOINTS	0.901521594	1.175787437
GO:0031123	RNA 3'-end processing	0.901490285	1.175870759
GO:0051656	establishment of organelle localization	0.901481401	1.175972097
GO:0030917	midbrain-hindbrain boundary development	0.62933037	1.17598988
GO:0050650	chondroitin sulfate proteoglycan biosynthetic process	0.901420287	1.175992439
ENSG00000122367	LDB3 subnetwork	0.629400765	1.175992917
ENSG00000092094	OSGEP subnetwork	0.90137974	1.176044292
MP:0005120	decreased circulating growth hormone level	0.90088425	1.17604936
GO:0000030	mannosyltransferase activity	0.901269674	1.176084999
ENSG00000105011	ASF1B subnetwork	0.629297758	1.176088057
GO:0001963	synaptic transmission, dopaminergic	0.900848582	1.176119269
MP:0004835	abnormal miniature endplate potential	0.90136717	1.176127667
GO:0007266	Rho protein signal transduction	0.901202467	1.176136875
ENSG00000156795	WDYHV1 subnetwork	0.90109007	1.176204629
GO:0050780	dopamine receptor binding	0.901177802	1.176206772
ENSG00000181788	SIAH2 subnetwork	0.900847964	1.176225225
GO:0045814	negative regulation of gene expression, epigenetic	0.90078917	1.176250113
MP:0004322	abnormal sternbra morphology	0.900774844	1.176333574
ENSG00000171735	CAMTA1 subnetwork	0.629946985	1.176362372
MP:0004067	abnormal trabecula carnea morphology	0.629880103	1.176372028
GO:0051155	positive regulation of striated muscle cell differentiation	0.900727466	1.176381004
ENSG00000075914	EXOSC7 subnetwork	0.62981178	1.176413305
ENSG00000151914	DST subnetwork	0.900719361	1.176464492
GO:0090329	regulation of DNA-dependent DNA replication	0.900662185	1.176507436
ENSG00000089053	ANAPC5 subnetwork	0.900337205	1.176512488
GO:0046580	negative regulation of Ras protein signal transduction	0.900582572	1.17653236
GO:0016328	lateral plasma membrane	0.900519363	1.176552781
MP:0002092	abnormal eye morphology	0.90027879	1.176559964
ENSG00000185245	GP1BA subnetwork	0.900449777	1.176586729
ENSG00000156735	BAG4 subnetwork	0.900084977	1.176621268

GO:0042552	myelination	0.90026907	1.176657048
ENSG00000152582	SPEF2 subnetwork	0.900069914	1.176691322
GO:0007586	digestion	0.900224285	1.176704545
ENSG00000085872	CHERP subnetwork	0.630252376	1.176734926
GO:0032881	regulation of polysaccharide metabolic process	0.900048602	1.176774921
ENSG00000143549	TPM3 subnetwork	0.630382394	1.176845298
ENSG00000198719	DLL1 subnetwork	0.630246562	1.17687737
GO:0070873	regulation of glycogen metabolic process	0.900048602	1.17688109
GO:0008037	cell recognition	0.630716954	1.176898294
ENSG00000170927	PKHD1 subnetwork	0.899933015	1.176949107
MP:0004678	split xiphoid process	0.900029351	1.176964721
GO:0010824	regulation of centrosome duplication	0.630689502	1.177015416
GO:0014044	Schwann cell development	0.899880323	1.177032759
ENSG00000081377	CDC14B subnetwork	0.630940699	1.177043072
ENSG00000197548	ATG7 subnetwork	0.899877522	1.177125451
GO:0008081	phosphoric diester hydrolase activity	0.630657832	1.177132567
GO:0030512	negative regulation of transforming growth factor beta r	0.632002786	1.177159793
ENSG00000153113	CAST subnetwork	0.630912546	1.177166498
GO:0008171	O-methyltransferase activity	0.632314359	1.177190218
MP:0001255	decreased body height	0.899857986	1.177209134
ENSG00000160867	FGFR4 subnetwork	0.632405427	1.177211999
GO:0046148	pigment biosynthetic process	0.632262749	1.177225164
ENSG00000211662	ENSG00000211662 subnetwork	0.89979546	1.177247698
REACTOME_MRNA_DECAY_BY_3	REACTOME_MRNA_DECAY_BY_3_TO_5_EXORIBONUCLE	0.631983965	1.177270434
GO:0030894	replisome	0.632205076	1.177285336
GO:0032467	positive regulation of cytokinesis	0.899758597	1.177331407
GO:0046847	filopodium assembly	0.899692128	1.177360961
ENSG00000071794	HLTF subnetwork	0.631977651	1.177400025
KEGG_NICOTINATE_AND_NICOTI	KEGG_NICOTINATE_AND_NICOTINAMIDE_METABOLISM	0.899658187	1.177417607
GO:0043601	nuclear replisome	0.632205076	1.177433796
ENSG00000122194	PLG subnetwork	0.631222539	1.177469058
ENSG00000151164	RAD9B subnetwork	0.899583171	1.177474264
ENSG00000108578	BLMH subnetwork	0.899518327	1.177481261
ENSG00000204469	PRRC2A subnetwork	0.89759723	1.177527378
MP:0004783	abnormal cardinal vein morphology	0.631964078	1.177529649
ENSG00000133059	DSTYK subnetwork	0.632750222	1.177532762
GO:0008198	ferrous iron binding	0.631506128	1.177553339
ENSG00000005513	SOX8 subnetwork	0.899484953	1.177565029
GO:0043014	alpha-tubulin binding	0.631586928	1.177568796
ENSG00000161654	LSM12 subnetwork	0.898324937	1.177575292
GO:0035196	production of miRNAs involved in gene silencing by miRN	0.898260958	1.177586831
GO:0005740	mitochondrial envelope	0.631435499	1.177588384
REACTOME_N:GLYCAN_TRIMMIN	REACTOME_N:GLYCAN_TRIMMING_IN_THE_ER_AND_C	0.897688244	1.17759276
GO:0034739	histone deacetylase activity (H4-K16 specific)	0.897574722	1.177602281
GO:0000086	G2/M transition of mitotic cell cycle	0.898192048	1.177602895
GO:0030863	cortical cytoskeleton	0.631917708	1.177615142
MP:0000422	delayed hair appearance	0.899444353	1.177617198
GO:0032105	negative regulation of response to extracellular stimulus	0.898961718	1.177634671
ENSG00000186141	POLR3C subnetwork	0.898804325	1.177635147
MP:0000519	hydronephrosis	0.631390366	1.177642379
GO:0051881	regulation of mitochondrial membrane potential	0.632725494	1.177649653
ENSG00000154889	MPPE1 subnetwork	0.898130174	1.177655147
ENSG00000206296	ENSG00000206296 subnetwork	0.898016147	1.17765765
GO:0072384	organelle transport along microtubule	0.898586066	1.17766525

GO:0006631	fatty acid metabolic process	0.898512231	1.177685838
GO:0033522	histone H2A ubiquitination	0.898658321	1.177689873
REACTOME_REGULATION_OF_AC	REACTOME_REGULATION_OF_ACTIVATED_PAK:2P34_BY	0.89940555	1.17769196
ENSG00000125845	BMP2 subnetwork	0.631896991	1.177706966
GO:0032041	NAD-dependent histone deacetylase activity (H3-K14 spe	0.897574722	1.17770888
ENSG00000172301	C17orf79 subnetwork	0.631814796	1.177735706
GO:0060231	mesenchymal to epithelial transition	0.898794331	1.177737094
GO:0032108	negative regulation of response to nutrient levels	0.898961718	1.177741119
ENSG00000206232	ENSG00000206232 subnetwork	0.898016147	1.177764206
REACTOME_P53:INDEPENDENT_C	REACTOME_P53:INDEPENDENT_DNA_DAMAGE_RESPON	0.899395397	1.177789322
GO:0046970	NAD-dependent histone deacetylase activity (H4-K16 spe	0.897574722	1.177815499
ENSG00000214265	SNURF subnetwork	0.633486723	1.177826744
ENSG00000118690	ARMC2 subnetwork	0.89922818	1.177860112
ENSG00000204261	ENSG00000204261 subnetwork	0.898016147	1.177870781
GO:0009185	ribonucleoside diphosphate metabolic process	0.633685069	1.177876385
REACTOME_P53:INDEPENDENT_C	REACTOME_P53:INDEPENDENT_G1S_DNA_DAMAGE_CH	0.899395397	1.177895735
GO:0031078	histone deacetylase activity (H3-K14 specific)	0.897574722	1.177922137
ENSG00000106723	SPIN1 subnetwork	0.899217474	1.17793493
ENSG00000071539	TRIP13 subnetwork	0.633472734	1.17796877
REACTOME_FORMATION_OF_FIB	REACTOME_FORMATION_OF_FIBRIN_CLOT_CLOTTING_I	0.63365336	1.177974317
GO:0048873	homeostasis of number of cells within a tissue	0.897526105	1.177978993
ENSG00000171861	RNMTL1 subnetwork	0.633195046	1.177998236
REACTOME_UBIQUITIN_MEDIATE	REACTOME_UBIQUITIN_MEDIATED_DEGRADATION_OF_	0.899395397	1.178002169
MP:0002211	abnormal primary sex determination	0.634195527	1.178041263
MP:0000748	progressive muscle weakness	0.897370632	1.178056512
ENSG00000163251	FZD5 subnetwork	0.633444516	1.178085642
MP:0004401	increased cochlear outer hair cell number	0.897517125	1.178085665
KEGG_ARACHIDONIC_ACID_MET/	KEGG_ARACHIDONIC_ACID_METABOLISM	0.633147772	1.178089958
ENSG00000121083	DYNLL2 subnetwork	0.634143785	1.178113991
MP:0009402	decreased skeletal muscle fiber diameter	0.897351397	1.178136038
ENSG00000131979	GCH1 subnetwork	0.634020462	1.178171407
ENSG00000084207	GSTP1 subnetwork	0.63410183	1.17819932
GO:2000058	regulation of protein ubiquitination involved in ubiquitin	0.897335716	1.178224638
MP:0010024	increased total body fat amount	0.633437271	1.178227736
GO:0009395	phospholipid catabolic process	0.897288741	1.178267959
ENSG00000104969	SGTA subnetwork	0.634000385	1.178288232
GO:0001667	ameboidal cell migration	0.634428175	1.178295597
MP:0001441	increased grooming behavior	0.897266518	1.178333937
ENSG00000127914	AKAP9 subnetwork	0.634551022	1.178367501
GO:0031623	receptor internalization	0.896307671	1.178382913
ENSG00000183570	PCBP3 subnetwork	0.89715764	1.178416093
REACTOME_CYCLIN_ACDK2:ASSO	REACTOME_CYCLIN_ACDK2:ASSOCIATED_EVENTS_AT_S	0.89724966	1.178440699
GO:0015936	coenzyme A metabolic process	0.896303985	1.178485261
ENSG00000165684	SNAPC4 subnetwork	0.89702301	1.178491797
GO:0035194	posttranscriptional gene silencing by RNA	0.897155638	1.178522882
ENSG00000117408	IPO13 subnetwork	0.896963953	1.17853517
ENSG00000082397	EPB41L3 subnetwork	0.896523452	1.178543575
GO:0070918	production of small RNA involved in gene silencing by RN	0.896278291	1.17857402
ENSG00000175110	MRPS22 subnetwork	0.89682807	1.178603808
MP:0001081	abnormal cranial ganglia morphology	0.896658467	1.178618063
KEGG_GLYCOSAMINOGLYCAN_BI	KEGG_GLYCOSAMINOGLYCAN_BIOSYNTHESIS_CHONDR	0.896946185	1.178623878
GO:0016441	posttranscriptional gene silencing	0.897155638	1.17862969
MP:0004144	hypotonia	0.896180596	1.178656324
GO:0001829	trophectodermal cell differentiation	0.635111131	1.17867379

GO:0031050	dsRNA fragmentation	0.896278291	1.17868094
GO:0046546	development of primary male sexual characteristics	0.896128413	1.178686145
MP:0000592	short tail	0.896825865	1.178710672
MP:0001146	abnormal testis morphology	0.635058109	1.178721398
ENSG00000124120	TTPAL subnetwork	0.89611774	1.178788566
ENSG00000122585	NPY subnetwork	0.896058273	1.178822942
GO:0016854	racemase and epimerase activity	0.635056803	1.178869609
GO:0004659	prenyltransferase activity	0.895822084	1.178874262
GO:0007566	embryo implantation	0.896055786	1.178929933
MP:0001258	decreased body length	0.635006248	1.178936117
ENSG00000112983	BRD8 subnetwork	0.895799999	1.178949519
GO:0005262	calcium channel activity	0.635347943	1.17897813
GO:0006977	DNA damage response, signal transduction by p53 class	0.895740726	1.178983928
ENSG00000111669	TPI1 subnetwork	0.89602326	1.179009712
GO:0072431	signal transduction involved in mitotic cell cycle G1/S tra	0.895740726	1.179090992
GO:0010827	regulation of glucose transport	0.896002097	1.179094045
ENSG00000165527	ARF6 subnetwork	0.637382739	1.179097744
ENSG00000140022	STON2 subnetwork	0.637329021	1.179126457
GO:0072413	signal transduction involved in mitotic cell cycle checkpo	0.895740726	1.179198075
ENSG00000100764	PSMC1 subnetwork	0.637591476	1.179234528
ENSG00000117410	ATP6V0B subnetwork	0.63765907	1.179237129
GO:0031362	anchored to external side of plasma membrane	0.637318016	1.179255452
MP:0008438	abnormal cutaneous collagen fibril morphology	0.637760429	1.179283567
GO:0072401	signal transduction involved in DNA integrity checkpoint	0.895740726	1.179305177
REACTOME_REGULATION_OF_M	REACTOME_REGULATION_OF_MRNA_STABILITY_BY_PR	0.635637693	1.179338947
MP:0002980	abnormal postural reflex	0.637590171	1.179382283
GO:0016323	basolateral plasma membrane	0.637300129	1.17938448
GO:0072422	signal transduction involved in DNA damage checkpoint	0.895740726	1.179412299
MP:0001785	edema	0.635763829	1.179486052
GO:0072474	signal transduction involved in mitotic cell cycle G1/S ch	0.895740726	1.17951944
GO:0007565	female pregnancy	0.637297148	1.179532347
GO:0046622	positive regulation of organ growth	0.895710004	1.179590261
GO:0006903	vesicle targeting	0.895532145	1.179595638
GO:0043484	regulation of RNA splicing	0.895645148	1.17962475
ENSG00000137801	THBS1 subnetwork	0.63592586	1.179626838
GO:0034623	cellular macromolecular complex disassembly	0.63727985	1.179642633
ENSG00000131558	EXOC4 subnetwork	0.63638794	1.179658463
ENSG00000132016	C19orf57 subnetwork	0.895514322	1.179675573
ENSG00000143401	ANP32E subnetwork	0.636241047	1.179691032
ENSG00000101400	SNTA1 subnetwork	0.637118698	1.179700238
ENSG00000143622	RIT1 subnetwork	0.895470788	1.179714623
ENSG00000152214	RIT2 subnetwork	0.63608292	1.179717337
ENSG00000108344	PSMD3 subnetwork	0.637235588	1.179721595
ENSG00000163207	IVL subnetwork	0.638217501	1.179732098
REACTOME_VPR:MEDIATED_NUC	REACTOME_VPR:MEDIATED_NUCLEAR_IMPORT_OF_PIC	0.636359619	1.179743815
GO:0032318	regulation of Ras GTPase activity	0.637090199	1.179772955
ENSG00000088930	XRN2 subnetwork	0.636845792	1.179777889
ENSG00000128739	SNRPN subnetwork	0.636907457	1.179799247
GO:0031011	Ino80 complex	0.638869285	1.179808654
ENSG00000197102	DYNC1H1 subnetwork	0.636523152	1.179811676
GO:0046578	regulation of Ras protein signal transduction	0.636218885	1.179814094
GO:0000236	mitotic prometaphase	0.89547077	1.179821851
ENSG00000150938	CRIM1 subnetwork	0.636817099	1.179844378
MP:0009873	abnormal aorta tunica media morphology	0.637052225	1.179864509

MP:0003139	patent ductus arteriosus	0.638211724	1.179873545
GO:0008608	attachment of spindle microtubules to kinetochore	0.895193394	1.179896345
MP:0008976	delayed female fertility	0.895023801	1.17990633
ENSG00000154162	CDH12 subnetwork	0.895448893	1.179906372
GO:0006022	aminoglycan metabolic process	0.895379114	1.179927273
GO:0007530	sex determination	0.636783068	1.179942262
GO:0009593	detection of chemical stimulus	0.894986669	1.179954525
GO:0033202	DNA helicase complex	0.638869285	1.179956223
MP:0004090	abnormal sarcomere morphology	0.638417539	1.179959945
GO:0006198	cAMP catabolic process	0.895159705	1.179962717
ENSG00000196154	S100A4 subnetwork	0.636701162	1.179977404
GO:0048546	digestive tract morphogenesis	0.89492848	1.179984537
ENSG00000184343	SRPK3 subnetwork	0.895339132	1.17998909
GO:0006476	protein deacetylation	0.638825558	1.179997498
GO:0000165	MAPK cascade	0.638209201	1.180008765
ENSG00000165410	CFL2 subnetwork	0.638750705	1.180020018
ENSG00000130204	TOMM40 subnetwork	0.638168085	1.180031309
GO:0050907	detection of chemical stimulus involved in sensory perception	0.894864173	1.180041845
GO:0035412	regulation of catenin import into nucleus	0.894832887	1.180090066
ENSG00000215727	ENSG00000215727 subnetwork	0.638656169	1.180121387
ENSG00000156931	VPS8 subnetwork	0.638736678	1.180136386
REACTOME_AQUAPORIN:MEDIATED_TRANSPORT	REACTOME_AQUAPORIN:MEDIATED_TRANSPORT	0.894832152	1.180197434
ENSG00000096696	DSP subnetwork	0.639241969	1.180255096
ENSG00000065518	NDUFB4 subnetwork	0.638656169	1.180269086
ENSG00000198700	IPO9 subnetwork	0.894824089	1.180291174
MP:0011089	complete perinatal lethality	0.894615255	1.180344953
MP:0003140	dilated heart atrium	0.894709012	1.180360393
REACTOME_ACTIVATION_OF_ATF	REACTOME_ACTIVATION_OF_ATF_IN_RESPONSE_TO_RESPONSE	0.893348032	1.180363653
GO:0000291	nuclear-transcribed mRNA catabolic process, exonucleolytic	0.640330907	1.180375874
MP:0002718	abnormal inner cell mass morphology	0.894563959	1.180379574
GO:0043242	negative regulation of protein complex disassembly	0.894822976	1.18039858
GO:0006691	leukotriene metabolic process	0.640477929	1.180411985
ENSG00000145241	CENPC1 subnetwork	0.892791482	1.180412183
ENSG00000105991	HOXA1 subnetwork	0.893295379	1.18042111
KEGG_PROGESTERONE_MEDIATED_OOCYTE_MATURATION	KEGG_PROGESTERONE_MEDIATED_OOCYTE_MATURATION	0.893195715	1.180423883
ENSG00000004487	KDM1A subnetwork	0.892715155	1.180433197
GO:0000978	RNA polymerase II core promoter proximal region sequence-specific DNA binding	0.892537839	1.180434188
ENSG00000142507	PSMB6 subnetwork	0.894523175	1.180441511
GO:0071779	G1/S transition checkpoint	0.894481834	1.18050346
GO:0051428	peptide hormone receptor binding	0.892501159	1.180505382
ENSG00000113812	ACTR8 subnetwork	0.894219345	1.18050724
MP:0003051	curly tail	0.892687186	1.180508938
GO:0042383	sarcolemma	0.893161363	1.180517823
GO:0043928	exonucleolytic nuclear-transcribed mRNA catabolic process, exonucleolytic	0.640330907	1.180523292
MP:0000167	decreased chondrocyte cell number	0.893818311	1.180530248
REACTOME_TELOMERE_MAINTENANCE	REACTOME_TELOMERE_MAINTENANCE	0.894413635	1.180538104
MP:0008128	abnormal brain internal capsule morphology	0.894313436	1.180540885
MP:0004204	absent stapes	0.893088219	1.180543399
GO:0060711	labyrinthine layer development	0.892467617	1.18054922
GO:0043449	cellular alkene metabolic process	0.640477929	1.180559371
ENSG00000127955	GNAI1 subnetwork	0.894023973	1.180561122
GO:0048639	positive regulation of developmental growth	0.894089043	1.180562893
ENSG00000177951	BET1L subnetwork	0.640252139	1.180564577
MP:0001513	limb grasping	0.892052939	1.180567725

MP:0004021	abnormal rod electrophysiology	0.894205735	1.180591985
MP:0000069	kyphoscoliosis	0.640193458	1.180593379
ENSG00000166863	TAC3 subnetwork	0.639998617	1.180594777
ENSG00000167863	ATP5H subnetwork	0.892268443	1.180603212
GO:0016765	transferase activity, transferring alkyl or aryl (other than	0.893784213	1.180605923
GO:0016558	protein import into peroxisome matrix	0.892015651	1.180607029
GO:0032088	negative regulation of NF-kappaB transcription factor ac	0.892163852	1.180615132
ENSG00000133243	BTBD2 subnetwork	0.893720705	1.180631493
ENSG00000104626	ERI1 subnetwork	0.892452716	1.180634124
MP:0001116	small gonad	0.893642066	1.180634284
ENSG00000106397	PLOD3 subnetwork	0.893078168	1.180641926
ENSG00000138430	OLA1 subnetwork	0.894022023	1.180668671
GO:0006584	catecholamine metabolic process	0.891989129	1.180696549
GO:0016634	oxidoreductase activity, acting on the CH-CH group of do	0.892421941	1.180700794
GO:0044304	main axon	0.640156479	1.180703398
GO:0001944	vasculature development	0.639868403	1.180714911
GO:0016073	snRNA metabolic process	0.639981244	1.180729818
GO:0031640	killing of cells of other organism	0.639787744	1.1807625
GO:0044236	multicellular organismal metabolic process	0.639722929	1.180766346
ENSG00000164134	NAA15 subnetwork	0.64087855	1.180803794
GO:0034311	diol metabolic process	0.891989129	1.180804346
GO:0033559	unsaturated fatty acid metabolic process	0.888509566	1.18083761
ENSG00000170515	PA2G4 subnetwork	0.640787764	1.180838847
GO:0030545	receptor regulator activity	0.891687001	1.180852133
GO:0003015	heart process	0.887029978	1.180865614
GO:0021756	striatum development	0.887190837	1.180878304
KEGG_AXON_GUIDANCE	KEGG_AXON_GUIDANCE	0.891898397	1.180896722
MP:0001391	abnormal tail movements	0.891500799	1.180898876
MP:0001314	corneal opacity	0.639715018	1.180901475
ENSG00000080986	NDC80 subnetwork	0.887314869	1.180909341
GO:0009712	catechol-containing compound metabolic process	0.891989129	1.180912162
ENSG00000067191	CACNB1 subnetwork	0.888458534	1.180918339
GO:0043473	pigmentation	0.891656652	1.180923456
ENSG00000007264	MATK subnetwork	0.887289136	1.180948885
REACTOME_RNA_POLYMERASE_I	REACTOME_RNA_POLYMERASE_I_RNA_POLYMERASE_II	0.887181226	1.180949977
MP:0002543	brachyphalangia	0.89119842	1.180955862
ENSG00000140740	UQCRC2 subnetwork	0.890773167	1.180970013
MP:0001006	abnormal retinal cone cell morphology	0.887532236	1.180972477
MP:0009967	abnormal neuron proliferation	0.887024807	1.18097402
GO:0035337	fatty-acyl-CoA metabolic process	0.888434028	1.180980752
GO:0071295	cellular response to vitamin	0.886933773	1.180981454
REACTOME_CDT1_ASSOCIATION	REACTOME_CDT1_ASSOCIATION_WITH_THE_CDC6ORCC	0.891484104	1.180983921
ENSG00000185313	SCN10A subnetwork	0.891148253	1.180999817
GO:0006801	superoxide metabolic process	0.891895297	1.181004566
MP:0003672	abnormal ureter development	0.887478498	1.181012019
GO:0000381	regulation of alternative nuclear mRNA splicing, via splic	0.888999118	1.181015847
REACTOME_CDO_IN_MYOGENESIS	REACTOME_CDO_IN_MYOGENESIS	0.886441452	1.181021495
REACTOME_UBIQUITIN:DEPENDEN	REACTOME_UBIQUITIN:DEPENDENT_DEGRADATION_OF	0.887945091	1.181025312
REACTOME_THROMBOXANE_SIG	REACTOME_THROMBOXANE_SIGNALLING_THROUGH_T	0.891343021	1.181026133
GO:0032856	activation of Ras GTPase activity	0.890739857	1.181032276
MP:0002925	abnormal cardiovascular development	0.88878796	1.181038116
GO:0006289	nucleotide-excision repair	0.88828374	1.181046021
GO:0048538	thymus development	0.891443729	1.18104614
ENSG00000131773	KHDRBS3 subnetwork	0.891092828	1.18106206

MP:0004833	ovary atrophy	0.888023552	1.181063732
MP:0004215	abnormal myocardial fiber physiology	0.890999641	1.18107404
ENSG00000164056	SPRY1 subnetwork	0.886911389	1.181080709
REACTOME_G_ALPHA_S_SIGNALING	REACTOME_G_ALPHA_S_SIGNALING_EVENTS	0.888961805	1.181087395
GO:0046949	fatty-acyl-CoA biosynthetic process	0.888434028	1.181089009
GO:0009264	deoxyribonucleotide catabolic process	0.888132144	1.181097561
ENSG00000102007	PLP2 subnetwork	0.889598806	1.181099515
GO:0048806	genitalia development	0.89092982	1.181099735
ENSG00000134508	CABLES1 subnetwork	0.88890722	1.181103985
REACTOME_HIGHLY_CALCIUM_PERMEABLE_POSTSYNAPTIC_TRANSMISSION	REACTOME_HIGHLY_CALCIUM_PERMEABLE_POSTSYNAPTIC_TRANSMISSION	0.888770168	1.181109686
ENSG00000120616	EPC1 subnetwork	0.886844661	1.181120294
GO:0000959	mitochondrial RNA metabolic process	0.887830621	1.18112273
REACTOME_MYOGENESIS	REACTOME_MYOGENESIS	0.886441452	1.181129995
ENSG00000117152	RGS4 subnetwork	0.890734564	1.181131127
GO:0019865	immunoglobulin binding	0.888255772	1.181131384
REACTOME_UBIQUITIN_DEPENDENT_DEGRADATION_OF_PROTEIN	REACTOME_UBIQUITIN_DEPENDENT_DEGRADATION_OF_PROTEIN	0.887945091	1.181133633
GO:0016820	hydrolase activity, acting on acid anhydrides, catalyzing trans-esterification	0.889549275	1.181134408
MP:0003997	tonic-clonic seizures	0.88678395	1.181141519
REACTOME_TRYPTOPHAN_CATABOLISM	REACTOME_TRYPTOPHAN_CATABOLISM	0.886369742	1.181146637
GO:0034199	activation of protein kinase A activity	0.88774893	1.181157692
GO:0048754	branching morphogenesis of a tube	0.890243176	1.181171089
ENSG00000087470	DNM1L subnetwork	0.890324829	1.181172811
GO:0030947	regulation of vascular endothelial growth factor receptor signaling pathway	0.889499003	1.181192199
GO:0006336	DNA replication-independent nucleosome assembly	0.886325745	1.181204631
MP:0004098	abnormal cerebellar granule cell morphology	0.890543206	1.181217415
REACTOME_DESTABILIZATION_OF_MRNA_BY_AUF1_HN	REACTOME_DESTABILIZATION_OF_MRNA_BY_AUF1_HN	0.89009654	1.181217972
GO:0031269	pseudopodium assembly	0.889254694	1.181228247
MP:0003990	decreased neurotransmitter release	0.890732986	1.18123914
REACTOME_ASSEMBLY_OF_THE_PRE-REPLICATIVE_COMPLEX	REACTOME_ASSEMBLY_OF_THE_PRE-REPLICATIVE_COMPLEX	0.890213723	1.181247141
MP:0002275	abnormal type II pneumocyte morphology	0.886782041	1.18125
ENSG00000119421	NDUFA8 subnetwork	0.889975869	1.181251144
ENSG00000122877	EGR2 subnetwork	0.890454531	1.181252287
MP:0009748	abnormal behavioral response to addictive substance	0.886703891	1.181262056
GO:0006342	chromatin silencing	0.889891824	1.181267735
ENSG00000158623	COPG2 subnetwork	0.889459756	1.181268315
GO:0006405	RNA export from nucleus	0.641191184	1.181292899
GO:0043968	histone H2A acetylation	0.641251122	1.181295233
ENSG00000131711	MAP1B subnetwork	0.890077052	1.181298618
GO:0034080	CenH3-containing nucleosome assembly at centromere	0.886325745	1.181313178
MP:0003031	acidosis	0.889864283	1.181339253
MP:0006007	abnormal basal ganglion morphology	0.890718657	1.181342601
ENSG00000214133	ENSG00000214133 subnetwork	0.889459756	1.1813765
GO:0034724	DNA replication-independent nucleosome organization	0.886325745	1.181421744
GO:0046324	regulation of glucose import	0.886086736	1.181480971
ENSG00000132688	NES subnetwork	0.886278677	1.181484375
MP:0004740	sensorineural hearing loss	0.641841277	1.181496259
GO:0070302	regulation of stress-activated protein kinase signaling cascade	0.641770766	1.181525128
MP:0003463	abnormal single cell response	0.886046602	1.181543624
GO:0071305	cellular response to vitamin D	0.641952908	1.181554669
ENSG00000167674	ENSG00000167674 subnetwork	0.886264027	1.181583785
MP:0001898	abnormal long term depression	0.886015362	1.181620081
GO:0004601	peroxidase activity	0.642383448	1.181622228
ENSG00000074054	CLASP1 subnetwork	0.642086505	1.181650461
GO:0051313	attachment of spindle microtubules to chromosome	0.885948222	1.181655172

ENSG00000054356	PTPRN subnetwork	0.642483375	1.181655662
MP:0001211	wrinkled skin	0.641766408	1.181666251
MP:0002968	increased circulating alkaline phosphatase level	0.642297639	1.181698654
ENSG00000188985	ENSG00000188985 subnetwork	0.642608328	1.181707773
GO:0035023	regulation of Rho protein signal transduction	0.885894597	1.181717859
ENSG00000075856	SART3 subnetwork	0.885830578	1.181748368
GO:0016684	oxidoreductase activity, acting on peroxide as acceptor	0.642383448	1.18176947
ENSG00000137656	BUD13 subnetwork	0.64166303	1.181773952
ENSG00000077348	EXOSC5 subnetwork	0.885758881	1.181778882
GO:0050872	white fat cell differentiation	0.641738399	1.181782462
ENSG00000137822	TUBGCP4 subnetwork	0.642278013	1.181821015
GO:0009636	response to toxin	0.885755615	1.181887591
MP:0001684	abnormal axial mesoderm	0.641658982	1.181921397
GO:0032755	positive regulation of interleukin-6 production	0.643355057	1.181957929
GO:0000398	nuclear mRNA splicing, via spliceosome	0.643236823	1.181968131
REACTOME_AUTODEGRADATION	REACTOME_AUTODEGRADATION_OF_THE_E3_UBIQUITIN_PATHWAY	0.885755551	1.18199632
ENSG00000017797	RALBP1 subnetwork	0.643506032	1.181999751
KEGG_PEROXISOME	KEGG_PEROXISOME	0.885752796	1.182105069
ENSG00000111481	COPZ1 subnetwork	0.643484777	1.182109521
GO:0000377	RNA splicing, via transesterification reactions with bulge	0.643236823	1.182115289
MP:0004163	abnormal adenohypophysis morphology	0.643160386	1.182137965
ENSG00000197903	HIST1H2BK subnetwork	0.64306289	1.182166874
ENSG00000110799	VWF subnetwork	0.885737117	1.182200037
GO:0046875	ephrin receptor binding	0.642974918	1.182208245
ENSG00000173546	CSPG4 subnetwork	0.885736578	1.182308825
ENSG00000136436	CALCOCO2 subnetwork	0.885731658	1.182394625
MP:0003730	abnormal photoreceptor inner segment morphology	0.885730755	1.182503451
ENSG00000153707	PTPRD subnetwork	0.885629541	1.182587683
REACTOME_RNA_POLYMERASE_I	REACTOME_RNA_POLYMERASE_I_PROMOTER_OPENING	0.885715967	1.182593888
MP:0000747	muscle weakness	0.885603809	1.182682747
ENSG00000104325	DECR1 subnetwork	0.885530808	1.182722585
GO:0032401	establishment of melanosome localization	0.885479962	1.182794659
MP:0002769	abnormal vas deferens morphology	0.885428292	1.182843724
MP:0001407	short stride length	0.885043045	1.182886493
ENSG00000124802	EEF1E1 subnetwork	0.885145102	1.182906495
GO:0007202	activation of phospholipase C activity	0.885400957	1.182906613
ENSG00000117748	RPA2 subnetwork	0.884891774	1.182975488
KEGG_PENTOSE_PHOSPHATE_PATHWAY	KEGG_PENTOSE_PHOSPHATE_PATHWAY	0.885368634	1.182978723
ENSG00000114745	GORASP1 subnetwork	0.88502271	1.182986271
MP:0000242	impaired fertilization	0.884675426	1.183
ENSG00000107438	PDLIM1 subnetwork	0.885307477	1.183018607
GO:0010008	endosome membrane	0.644155331	1.183028493
GO:0009119	ribonucleoside metabolic process	0.884863592	1.183066077
MP:0005341	decreased susceptibility to atherosclerosis	0.884656688	1.183095216
GO:0034440	lipid oxidation	0.884601121	1.183121313
GO:0042278	purine nucleoside metabolic process	0.884468461	1.18313203
GO:0060491	regulation of cell projection assembly	0.884566954	1.1831889
GO:0009218	pyrimidine ribonucleotide metabolic process	0.884442233	1.183208852
GO:0016840	carbon-nitrogen lyase activity	0.884304795	1.183247256
GO:0045005	maintenance of fidelity involved in DNA-dependent DNA replication	0.884410769	1.183262634
GO:0045669	positive regulation of osteoblast differentiation	0.884270405	1.183319498
ENSG00000157916	RER1 subnetwork	0.884008619	1.183333333
ENSG00000144642	RBMS3 subnetwork	0.884228538	1.183359469
REACTOME_FGFR_LIGAND_BINDING	REACTOME_FGFR_LIGAND_BINDING_AND_ACTIVATION	0.884142871	1.183362546

MP:0000462	abnormal digestive system morphology	0.88392776	1.183382543
GO:0008643	carbohydrate transport	0.88389403	1.183440989
MP:0000293	absent myocardial trabeculae	0.646449899	1.183451185
ENSG00000166478	ZNF143 subnetwork	0.883845641	1.183467147
REACTOME_G_BETAGAMMA_SIG	REACTOME_G_BETAGAMMA_SIGNALING_THROUGH_P	0.646892214	1.183467642
GO:0070536	protein K63-linked deubiquitination	0.644725652	1.183490859
ENSG00000034677	RNF19A subnetwork	0.64466327	1.183495025
ENSG00000177731	FLII subnetwork	0.644810512	1.183530216
MP:0008753	abnormal osteocyte morphology	0.6446105	1.18353651
ENSG00000096155	BAG6 subnetwork	0.883815794	1.183539455
GO:0033688	regulation of osteoblast proliferation	0.644540929	1.183584225
ENSG00000140525	FANCI subnetwork	0.64644361	1.183598015
ENSG00000117724	CENPF subnetwork	0.646888778	1.183601984
ENSG00000206313	ENSG00000206313 subnetwork	0.883815794	1.183648699
ENSG00000100931	ENSG00000100931 subnetwork	0.64664832	1.183651699
REACTOME_TRANSPORT_OF_THE	REACTOME_TRANSPORT_OF_THE_SLBP_INDEPENDENT_	0.646848389	1.183668155
REACTOME_NUCLEOTIDE_EXCISIC	REACTOME_NUCLEOTIDE_EXCISION_REPAIR	0.883079604	1.183684405
REACTOME_METABOLISM_OF_N	REACTOME_METABOLISM_OF_NON:CODING_RNA	0.646308063	1.183687019
ENSG00000128626	MRPS12 subnetwork	0.883471923	1.183691938
MP:0002231	abnormal primitive streak morphology	0.647213964	1.183694844
ENSG00000151577	DRD3 subnetwork	0.646003896	1.183697542
GO:0060047	heart contraction	0.88332349	1.183707398
MP:0000018	small ears	0.883418996	1.183718138
GO:0051084	'de novo' posttranslational protein folding	0.646430326	1.183720065
REACTOME_CYCLIN_E_ASSOCIATI	REACTOME_CYCLIN_E_ASSOCIATED_EVENTS_DURING_C	0.883642376	1.183727264
ENSG00000107186	MPDZ subnetwork	0.883288451	1.183733604
ENSG00000213588	ZBTB9 subnetwork	0.646807879	1.183734342
GO:0040013	negative regulation of locomotion	0.883038918	1.183756814
ENSG00000204463	BAG6 subnetwork	0.883815794	1.183757962
GO:0033177	proton-transporting two-sector ATPase complex, proton	0.883609536	1.183781163
KEGG_GLYCINE_SERINE_AND_THI	KEGG_GLYCINE_SERINE_AND_THREONINE_METABOLISM	0.883234644	1.18378291
GO:0032107	regulation of response to nutrient levels	0.646214047	1.183788481
MP:0002970	abnormal white adipose tissue morphology	0.883771247	1.18379339
GO:0048365	Rac GTPase binding	0.647541977	1.18379383
ENSG00000173156	RHOD subnetwork	0.64748143	1.183804213
GO:0008299	isoprenoid biosynthetic process	0.647184244	1.183804388
GO:0046503	glycerolipid catabolic process	0.645993701	1.183825903
REACTOME_SNRNP_ASSEMBLY	REACTOME_SNRNP_ASSEMBLY	0.646308063	1.183833933
GO:0042605	peptide antigen binding	0.645180384	1.183838886
MP:0000162	lordosis	0.883019826	1.183852338
REACTOME_PACKAGING_OF_TELI	REACTOME_PACKAGING_OF_TELOMERE_ENDS	0.882991025	1.183901673
ENSG00000105127	AKAP8 subnetwork	0.647471929	1.183913744
GO:0031669	cellular response to nutrient levels	0.64779958	1.183921714
GO:0032104	regulation of response to extracellular stimulus	0.646214047	1.183935444
REACTOME_RNA_POLYMERASE_I	REACTOME_RNA_POLYMERASE_I_PROMOTER_ESCAPE	0.645985147	1.183941878
ENSG00000131381	ZFYVE20 subnetwork	0.645130979	1.183942559
GO:0002088	lens development in camera-type eye	0.882891724	1.183958776
ENSG00000136205	TNS3 subnetwork	0.882974947	1.184001848
GO:0000982	RNA polymerase II core promoter proximal region seque	0.647751099	1.184006442
ENSG00000136152	COG3 subnetwork	0.645684062	1.184020875
ENSG00000100722	ZC3H14 subnetwork	0.645887067	1.184031056
ENSG00000127588	GNG13 subnetwork	0.882854077	1.184035866
ENSG00000179051	RCC2 subnetwork	0.882783004	1.184066747
MP:0002657	chondrodystrophy	0.645811957	1.184072556

ENSG00000118985	ELL2 subnetwork	0.645982855	1.184082723
ENSG00000005469	CROT subnetwork	0.882728656	1.184088388
ENSG00000169021	UQCERS1 subnetwork	0.882557006	1.184094692
GO:0090004	positive regulation of establishment of protein localization	0.645671926	1.184143159
GO:0043408	regulation of MAPK cascade	0.882538857	1.184153334
ENSG00000132612	VPS4A subnetwork	0.882196379	1.184161347
MP:0006346	small branchial arch	0.88242732	1.184165742
MP:0002282	abnormal trachea morphology	0.645584958	1.184166045
GO:0016918	retinal binding	0.882707305	1.184170134
GO:0001159	core promoter proximal region DNA binding	0.882292946	1.184172063
GO:0030553	cGMP binding	0.882130612	1.184192265
MP:0004597	increased susceptibility to noise-induced hearing loss	0.882382806	1.184196652
GO:0016884	carbon-nitrogen ligase activity, with glutamine as amido-	0.64550912	1.184213797
ENSG00000213512	GBP7 subnetwork	0.882002855	1.184230983
REACTOME_METABOLISM_OF_W	REACTOME_METABOLISM_OF_WATER:SOLUBLE_VITAM	0.881735657	1.184245117
ENSG00000183474	GTF2H2C subnetwork	0.882103637	1.184246322
GO:0043038	amino acid activation	0.881950544	1.184271171
ENSG00000162512	SDC3 subnetwork	0.648228762	1.184303406
GO:0007006	mitochondrial membrane organization	0.881234602	1.184319718
REACTOME_METABOLISM_OF_VI	REACTOME_METABOLISM_OF_VITAMINS_AND_COFACT	0.881735657	1.184354749
ENSG00000108306	FBXL20 subnetwork	0.64836139	1.18436107
ENSG00000139626	ITGB7 subnetwork	0.881463148	1.184368923
GO:0043039	tRNA aminoacylation	0.881950544	1.184380785
GO:0005874	microtubule	0.88138591	1.184385997
ENSG00000104164	PLDN subnetwork	0.648166224	1.184394352
ENSG00000101452	DHX35 subnetwork	0.881233568	1.184429418
GO:0000226	microtubule cytoskeleton organization	0.881722738	1.184455143
GO:0032438	melanosome organization	0.881151965	1.184460398
GO:0004859	phospholipase inhibitor activity	0.880671156	1.184484197
ENSG00000159720	ATP6V0D1 subnetwork	0.8816727	1.184513889
MP:0005136	decreased growth hormone level	0.881128413	1.184528442
ENSG00000163754	GYG1 subnetwork	0.880666658	1.184584724
GO:0032412	regulation of ion transmembrane transporter activity	0.881101129	1.184587232
ENSG00000100883	SRP54 subnetwork	0.880903176	1.184589009
GO:0030934	anchoring collagen	0.649075694	1.184640604
MP:0004252	abnormal direction of heart looping	0.880623973	1.184643552
ENSG00000064547	LPAR2 subnetwork	0.649017688	1.184651076
GO:0046379	extracellular polysaccharide metabolic process	0.648763173	1.184651566
MP:0001409	increased stereotypic behavior	0.881067105	1.184659933
ENSG00000155760	FZD7 subnetwork	0.6486135	1.184672527
ENSG00000115540	MOB4 subnetwork	0.880884363	1.184675626
ENSG00000116337	AMPD2 subnetwork	0.649241875	1.184706246
GO:0043542	endothelial cell migration	0.648989441	1.184711051
GO:0006354	transcription elongation, DNA-dependent	0.880573608	1.184716299
ENSG00000198899	MT-ATP6 subnetwork	0.650849265	1.18474022
MP:0002314	abnormal respiratory mechanics	0.650735766	1.184750679
MP:0008843	absent subcutaneous adipose tissue	0.64918615	1.184778575
GO:0045226	extracellular polysaccharide biosynthetic process	0.648763173	1.184798217
MP:0000926	absent floor plate	0.880564921	1.184812239
ENSG00000150867	PIP4K2A subnetwork	0.650711142	1.184853722
GO:0001078	RNA polymerase II core promoter proximal region seque	0.648987527	1.184857673
ENSG00000185637	ENSG00000185637 subnetwork	0.880533302	1.184889651
ENSG00000154096	THY1 subnetwork	0.880472967	1.184934619
ENSG00000099341	PSMD8 subnetwork	0.649698364	1.184971563

MP:0008114	abnormal Kupffer cell morphology	0.649622361	1.184975887
REACTOME_G_ALPHA_Q_SIGNAL	REACTOME_G_ALPHA_Q_SIGNALLING_EVENTS	0.650693313	1.184987654
REACTOME_PKA_ACTIVATION	REACTOME_PKA_ACTIVATION	0.880453311	1.185030607
ENSG00000198786	MT-ND5 subnetwork	0.650630481	1.185047537
MP:0006359	absent startle reflex	0.650335619	1.185058678
ENSG00000101473	ACOT8 subnetwork	0.880370436	1.185061683
REACTOME_GLUCOSE_METABOLI	REACTOME_GLUCOSE_METABOLISM	0.650262057	1.185093897
REACTOME_CHROMOSOME_MAI	REACTOME_CHROMOSOME_MAINTENANCE	0.649599443	1.185110067
ENSG00000010803	SCMH1 subnetwork	0.651484125	1.185119635
GO:0051051	negative regulation of transport	0.6514059	1.185142469
ENSG00000108272	DHRS11 subnetwork	0.880358091	1.185157699
ENSG00000077943	ITGA8 subnetwork	0.650553961	1.185161171
ENSG00000212870	ENSG00000212870 subnetwork	0.650630481	1.185193875
REACTOME_VIF:MEDIATED_DEGR	REACTOME_VIF:MEDIATED_DEGRADATION_OF_APOBEC	0.880320555	1.185202709
ENSG00000142627	EPHA2 subnetwork	0.650235455	1.185215618
ENSG00000139180	NDUFA9 subnetwork	0.650498005	1.185251976
GO:0031253	cell projection membrane	0.880008673	1.185266821
GO:0032757	positive regulation of interleukin-8 production	0.879906125	1.185270095
GO:0006506	GPI anchor biosynthetic process	0.650162491	1.185275581
GO:0051653	spindle localization	0.87982007	1.185282651
ENSG00000127022	CANX subnetwork	0.651405768	1.185288675
GO:0022412	cellular process involved in reproduction in multicellular	0.880314828	1.185294118
GO:0005868	cytoplasmic dynein complex	0.880251348	1.185343788
GO:0051898	negative regulation of protein kinase B signaling cascade	0.651701579	1.185355778
GO:0051293	establishment of spindle localization	0.87982007	1.185392685
ENSG00000102119	EMD subnetwork	0.651303987	1.18540227
MP:0006072	abnormal retinal apoptosis	0.651393542	1.185410241
GO:0006376	mRNA splice site selection	0.6500725	1.185420272
GO:0001012	RNA polymerase II regulatory region DNA binding	0.650145278	1.185422074
REACTOME_INHIBITION_OF_INSU	REACTOME_INHIBITION_OF_INSULIN_SECRETION_BY_A	0.880217684	1.185435226
GO:0005080	protein kinase C binding	0.649992157	1.185455557
ENSG00000161835	GRASP subnetwork	0.879636453	1.185481475
GO:0030500	regulation of bone mineralization	0.652576067	1.185484666
ENSG00000105993	DNAJB6 subnetwork	0.879807402	1.185493455
MP:0003109	short femur	0.652673674	1.185541872
GO:0060008	Sertoli cell differentiation	0.879760143	1.185547818
ENSG00000119487	MAPKAP1 subnetwork	0.879604019	1.185572994
GO:0042401	cellular biogenic amine biosynthetic process	0.652531961	1.185587583
ENSG00000133027	PEMT subnetwork	0.65277307	1.185599064
REACTOME_LOSS_OF_NLP_FROM	REACTOME_LOSS_OF_NLP_FROM_MITOTIC_CENTROSO	0.879394837	1.185633999
GO:0004602	glutathione peroxidase activity	0.879572541	1.185636668
GO:0006488	dolichol-linked oligosaccharide biosynthetic process	0.879481103	1.185639978
GO:0030866	cortical actin cytoskeleton organization	0.652913705	1.185662398
GO:0034728	nucleosome organization	0.879011421	1.185697026
ENSG00000211679	ENSG00000211679 subnetwork	0.652516372	1.185709006
ENSG00000113407	TARS subnetwork	0.652059808	1.185716928
MP:0005189	abnormal anogenital distance	0.878569279	1.185732218
REACTOME_LOSS_OF_PROTEINS_	REACTOME_LOSS_OF_PROTEINS_REQUIRED_FOR_INTEF	0.879394837	1.185744147
GO:0042301	phosphate ion binding	0.878804077	1.185744167
ENSG00000178053	MLF1 subnetwork	0.878880116	1.185750139
ENSG00000131508	UBE2D2 subnetwork	0.878486672	1.185763437
ENSG00000109519	GRPEL1 subnetwork	0.652014697	1.185764488
ENSG00000156475	PPP2R2B subnetwork	0.652273385	1.185765344
ENSG00000130177	CDC16 subnetwork	0.878974466	1.185765406

ENSG00000100796	SMEK1 subnetwork	0.878743057	1.185789327
ENSG00000171621	SPSB1 subnetwork	0.879375612	1.185826442
ENSG00000187558	ENSG00000187558 subnetwork	0.878467275	1.185841161
ENSG00000211677	ENSG00000211677 subnetwork	0.652516372	1.185855101
MP:0000222	decreased neutrophil cell number	0.652448632	1.185884165
MP:0006032	abnormal ureteric bud morphology	0.652219621	1.185891272
GO:0006406	mRNA export from nucleus	0.652272057	1.185905337
MP:0004811	abnormal neuron physiology	0.879369725	1.185936629
ENSG00000184203	PPP1R2 subnetwork	0.878467275	1.185951451
REACTOME_REGULATION_OF_IN: REACTOME_REGULATION_OF_INSULIN:LIKE_GROWTH_I		0.87927439	1.185953908
GO:0006586	indolalkylamine metabolic process	0.878407528	1.185964096
GO:0016324	apical plasma membrane	0.878104391	1.185977482
GO:0030036	actin cytoskeleton organization	0.663251459	1.186010677
MP:0008271	abnormal bone ossification	0.878206269	1.186048567
ENSG00000131263	RLIM subnetwork	0.873697192	1.186052164
ENSG00000131149	KIAA0182 subnetwork	0.873645296	1.186074233
GO:0042430	indole-containing compound metabolic process	0.878407528	1.186074419
MP:0002578	impaired ability to fire action potentials	0.878087206	1.186078541
GO:0045687	positive regulation of glial cell differentiation	0.663350966	1.186079097
MP:0000267	abnormal heart development	0.663432854	1.186098981
ENSG00000167552	TUBA1A subnetwork	0.663218948	1.186106055
GO:0090092	regulation of transmembrane receptor protein serine/th	0.878354433	1.186128942
GO:0050805	negative regulation of synaptic transmission	0.873878618	1.186132922
GO:2000758	positive regulation of peptidyl-lysine acetylation	0.87803333	1.186133085
GO:0008361	regulation of cell size	0.877956809	1.186141102
REACTOME_CELL_CYCLE	REACTOME_CELL_CYCLE	0.8736181	1.186161758
ENSG00000113360	DROSHA subnetwork	0.663659331	1.186169052
KEGG_TRYPTOPHAN_METABOLIS: KEGG_TRYPTOPHAN_METABOLISM		0.874108272	1.186205607
ENSG00000169271	HSPB3 subnetwork	0.875722322	1.186210114
ENSG00000184937	WT1 subnetwork	0.873549245	1.186211895
GO:0032890	regulation of organic acid transport	0.877924121	1.186214279
GO:0016877	ligase activity, forming carbon-sulfur bonds	0.663218634	1.18625
MP:0006378	abnormal spermatogonia morphology	0.874050916	1.186255725
ENSG00000173636	ENSG00000173636 subnetwork	0.875675947	1.186264813
ENSG00000091704	CPA1 subnetwork	0.874702495	1.186283392
ENSG00000164442	CITED2 subnetwork	0.663643024	1.186300788
GO:0009101	glycoprotein biosynthetic process	0.874618416	1.186300794
GO:0051149	positive regulation of muscle cell differentiation	0.873534967	1.186318152
MP:0004672	short ribs	0.877915667	1.186320052
GO:0030141	secretory granule	0.877509788	1.186324269
MP:0003036	vertebral transformation	0.664901224	1.186333374
MP:0003122	maternal imprinting	0.875140396	1.186353875
GO:0032435	negative regulation of proteasomal ubiquitin-dependent	0.875663479	1.186366181
REACTOME_ABORTIVE_ELONGAT REACTOME_ABORTIVE_ELONGATION_OF_HIV:1_TRANS(0.663204275	1.186369705
GO:0009125	nucleoside monophosphate catabolic process	0.87764104	1.186372102
ENSG00000187790	FANCM subnetwork	0.877771687	1.186382682
MP:0002893	ketoaciduria	0.874599581	1.186388266
GO:0000407	pre-autophagosomal structure	0.87349894	1.186396371
ENSG00000131051	RBM39 subnetwork	0.664845556	1.186398305
ENSG00000103051	COG4 subnetwork	0.877892276	1.18640257
ENSG00000102683	SGCG subnetwork	0.874546149	1.186419695
ENSG00000047410	TPR subnetwork	0.877496524	1.186420788
GO:0032703	negative regulation of interleukin-2 production	0.663129583	1.186428745
GO:0070328	triglyceride homeostasis	0.875621055	1.186430238

ENSG00000121931	LRIF1 subnetwork	0.875111084	1.186431973
GO:0016050	vesicle organization	0.873442609	1.186455897
MP:0005157	holoprosencephaly	0.876361467	1.186459013
MP:0002835	abnormal cranial suture morphology	0.663879538	1.186461744
ENSG00000089250	NOS1 subnetwork	0.876226167	1.186465815
ENSG00000161011	SQSTM1 subnetwork	0.875553821	1.186475639
GO:0033057	multicellular organismal reproductive behavior	0.875337024	1.186485856
GO:0051148	negative regulation of muscle cell differentiation	0.874954076	1.186490147
ENSG00000137878	GCOM1 subnetwork	0.664788014	1.186493522
ENSG00000198785	GRIN3A subnetwork	0.87748161	1.186503353
MP:0003915	increased left ventricle weight	0.875420076	1.186505788
MP:0004620	cervical vertebral fusion	0.874529997	1.186507195
ENSG00000030066	NUP160 subnetwork	0.875087529	1.186510086
GO:0000087	M phase of mitotic cell cycle	0.874461715	1.186515279
ENSG00000152684	PELO subnetwork	0.656978857	1.186517267
GO:0035094	response to nicotine	0.873394908	1.18652479
MP:0001953	respiratory failure	0.877213845	1.186541508
GO:0031256	leading edge membrane	0.877330813	1.186542761
ENSG00000163159	VPS72 subnetwork	0.876210785	1.186553172
ENSG00000187498	COL4A1 subnetwork	0.663120249	1.186554571
ENSG00000095066	HOOK2 subnetwork	0.876117454	1.186561246
GO:0042596	fear response	0.876360889	1.18656967
ENSG00000178188	SH2B1 subnetwork	0.665206772	1.186584776
ENSG00000072832	CRMP1 subnetwork	0.875551218	1.18658639
GO:0031116	positive regulation of microtubule polymerization	0.663067527	1.186589364
MP:0004145	abnormal muscle electrophysiology	0.873151701	1.186591186
REACTOME_RNA_POLYMERASE_I	REACTOME_RNA_POLYMERASE_III_CHAIN_ELONGATION	0.657133117	1.186598506
ENSG00000175575	PAAF1 subnetwork	0.877111361	1.18660889
GO:0048259	regulation of receptor-mediated endocytosis	0.877474471	1.186609222
GO:0015459	potassium channel regulator activity	0.873390645	1.186621761
MP:0000559	abnormal femur morphology	0.664782491	1.186625091
ENSG00000108559	NUP88 subnetwork	0.87720342	1.186638092
GO:0008380	RNA splicing	0.656971354	1.186650337
ENSG00000196540	ENSG00000196540 subnetwork	0.656714318	1.186651556
ENSG00000114126	TFDP2 subnetwork	0.873300577	1.186657934
ENSG00000160695	ENSG00000160695 subnetwork	0.873122812	1.186660116
GO:0006359	regulation of transcription from RNA polymerase III promoter	0.657347299	1.186662994
REACTOME_TRANSPORT_OF_THE	REACTOME_TRANSPORT_OF_THE_SLBP_DEPENDANT_M	0.663027627	1.186666667
ENSG00000060558	GNA15 subnetwork	0.665170283	1.186667877
ENSG00000166313	APBB1 subnetwork	0.665327409	1.186671104
GO:0045454	cell redox homeostasis	0.876728611	1.186671329
REACTOME_SEMA3A_PAK_DEPENDENT	REACTOME_SEMA3A_PAK_DEPENDENT_AXON_REPULSION	0.87678453	1.186672571
GO:0014065	phosphatidylinositol 3-kinase cascade	0.656792013	1.186677692
GO:0008306	associative learning	0.873082808	1.186686944
ENSG00000175334	BANF1 subnetwork	0.664411686	1.186689689
ENSG00000136930	PSMB7 subnetwork	0.87662788	1.186693398
GO:0035690	cellular response to drug	0.8770031	1.186694939
KEGG_MELANOGENESIS	KEGG_MELANOGENESIS	0.877088609	1.186696179
ENSG00000073536	NLE1 subnetwork	0.656904709	1.186697697
GO:0022625	cytosolic large ribosomal subunit	0.664638517	1.186729255
GO:0000375	RNA splicing, via transesterification reactions	0.664080225	1.186736178
ENSG00000196655	TRAPP4 subnetwork	0.656678911	1.186741821
GO:0043331	response to dsRNA	0.657313712	1.186747062
MP:0002914	abnormal endplate potential	0.664780405	1.186756691

GO:0044241	lipid digestion	0.876988109	1.18676827
ENSG00000174827	PDZK1 subnetwork	0.664721803	1.186773256
GO:2000178	negative regulation of neural precursor cell proliferation	0.873065762	1.186783976
GO:0043407	negative regulation of MAP kinase activity	0.653688857	1.186802905
ENSG00000183454	GRIN2A subnetwork	0.663009936	1.186804712
ENSG00000136527	TRA2B subnetwork	0.656516857	1.186805981
ENSG00000125695	STRADA subnetwork	0.664592253	1.186812455
REACTOME_ACTIVATION_OF_NMDA_RECEPTOR_UPON_MP:0002177	REACTOME_ACTIVATION_OF_NMDA_RECEPTOR_UPON_abnormal outer ear morphology	0.664406822	1.186821377
ENSG00000164251	F2RL1 subnetwork	0.876939649	1.18682297
GO:0008191	metalloendopeptidase inhibitor activity	0.656644419	1.186832108
GO:0035064	methyated histone residue binding	0.656436062	1.186841138
MP:0004173	abnormal intervertebral disk morphology	0.664350782	1.186844019
KEGG_SELENOAMINO_ACID_METABOLISM	KEGG_SELENOAMINO_ACID_METABOLISM	0.872973495	1.186861075
MP:0003014	abnormal kidney medulla morphology	0.873054404	1.186881026
ENSG00000142684	ZNF593 subnetwork	0.664238881	1.18688932
ENSG00000213044	ENSG00000213044 subnetwork	0.87292393	1.186906657
GO:0055117	regulation of cardiac muscle contraction	0.662995847	1.186918499
ENSG00000135441	BLOC1S1 subnetwork	0.653837847	1.186933776
GO:0051593	response to folic acid	0.872870415	1.18696161
MP:0008388	hypochromic microcytic anemia	0.872797332	1.186969754
GO:0007210	serotonin receptor signaling pathway	0.664346867	1.186975758
GO:0008305	integrin complex	0.872469254	1.186978923
GO:0048551	metalloenzyme inhibitor activity	0.661778098	1.186985885
GO:0019203	carbohydrate phosphatase activity	0.656436062	1.186986637
GO:0031670	cellular response to nutrient	0.657855566	1.187005995
ENSG00000123136	DDX39A subnetwork	0.872751012	1.187010676
MP:0001664	abnormal digestion	0.662968925	1.187014091
MP:0000939	decreased motor neuron number	0.665594324	1.187017544
GO:0009583	detection of light stimulus	0.872318476	1.187046753
MP:0010878	increased trabecular bone volume	0.661732402	1.187051235
MP:0002631	abnormal epididymis morphology	0.656375115	1.187052477
ENSG00000126456	IRF3 subnetwork	0.661662776	1.187055745
REACTOME_TRANS:GOLGI_NETWORK_VESICLE_BUDDING	REACTOME_TRANS:GOLGI_NETWORK_VESICLE_BUDDING	0.654134642	1.187061646
ENSG00000157110	RBPMS subnetwork	0.660820984	1.187065919
GO:0046328	regulation of JNK cascade	0.872451471	1.187066704
ENSG00000146463	ZMYM4 subnetwork	0.872237399	1.187078336
ENSG00000204271	SPIN3 subnetwork	0.659616697	1.187091064
ENSG00000124575	HIST1H1D subnetwork	0.872734499	1.187098436
REACTOME_AXON_GUIDANCE	REACTOME_AXON_GUIDANCE	0.871948261	1.187101612
ENSG00000100567	PSMA3 subnetwork	0.656337808	1.18710607
ENSG00000179036	ENSG00000179036 subnetwork	0.659851928	1.187107993
MP:0002102	abnormal ear morphology	0.872145799	1.18711461
GO:0015149	hexose transmembrane transporter activity	0.871667798	1.187121425
ENSG00000172432	GTPBP2 subnetwork	0.661970948	1.187139555
ENSG00000104765	BNIP3L subnetwork	0.658131479	1.187143731
GO:0050308	sugar-phosphatase activity	0.661624771	1.187145466
MP:0001883	mammary adenocarcinoma	0.657855566	1.187151248
MP:0004261	abnormal embryonic neuroepithelium morphology	0.66296605	1.187158304
ENSG00000106636	YKT6 subnetwork	0.871921911	1.187166026
ENSG00000140612	SEC11A subnetwork	0.658044983	1.187166626
GO:0006361	transcription initiation from RNA polymerase I promoter	0.662891396	1.187168894
GO:0034185	apolipoprotein binding	0.87211401	1.187169634
GO:0015485	cholesterol binding	0.660645092	1.187170892
		0.654091084	1.187176963

GO:0006352	transcription initiation, DNA-dependent	0.660386008	1.187178393
ENSG00000074201	CLNS1A subnetwork	0.661550697	1.187186511
ENSG00000211893	ENSG00000211893 subnetwork	0.654016387	1.187193846
GO:0008307	structural constituent of muscle	0.871831443	1.187207013
ENSG00000187778	MCRS1 subnetwork	0.661492412	1.187209302
ENSG00000186787	SPIN2B subnetwork	0.872734499	1.187209629
REACTOME_CLATHRIN_DERIVED_REACTOME_CLATHRIN_DERIVED_VESICLE_BUDDING		0.660820984	1.187210578
GO:0014037	Schwann cell differentiation	0.660578899	1.187211996
ENSG00000138398	PPIG subnetwork	0.661318874	1.187212276
ENSG00000119718	EIF2B2 subnetwork	0.871638331	1.187213991
ENSG00000177602	GSG2 subnetwork	0.660728621	1.187215113
GO:0001894	tissue homeostasis	0.659844572	1.187216256
GO:0031966	mitochondrial membrane	0.657786189	1.187216987
GO:0010463	mesenchymal cell proliferation	0.659595038	1.187217678
MP:0001651	necrosis	0.656165254	1.187223994
ENSG00000185627	PSMD13 subnetwork	0.655935115	1.187231562
ENSG00000009844	VTA1 subnetwork	0.658743548	1.187244836
MP:0000121	failure of tooth eruption	0.656327906	1.187251656
ENSG00000198910	L1CAM subnetwork	0.657695952	1.187258262
ENSG00000132305	IMMT subnetwork	0.871598381	1.187269061
GO:0045821	positive regulation of glycolysis	0.662558109	1.187270517
ENSG00000206211	ENSG00000206211 subnetwork	0.655179526	1.187271164
ENSG00000189403	HMGB1 subnetwork	0.660349151	1.18727439
ENSG00000104613	INTS10 subnetwork	0.872110099	1.187276221
GO:0003697	single-stranded DNA binding	0.655259727	1.18727887
ENSG00000166530	ENSG00000166530 subnetwork	0.66238974	1.187285662
GO:0090218	positive regulation of lipid kinase activity	0.665989312	1.187288341
ENSG00000120885	CLU subnetwork	0.666194675	1.187291415
GO:0010719	negative regulation of epithelial to mesenchymal transition	0.662506976	1.187293288
MP:0001656	focal hepatic necrosis	0.66633493	1.187294487
MP:0005029	abnormal amnion morphology	0.662865423	1.187294933
ENSG00000087245	MMP2 subnetwork	0.66019664	1.187295682
GO:0032365	intracellular lipid transport	0.658674905	1.187310513
ENSG00000167244	IGF2 subnetwork	0.659573273	1.187313797
ENSG00000090470	PDCD7 subnetwork	0.660557994	1.187320166
ENSG00000205659	LIN52 subnetwork	0.661458351	1.187323429
MP:0001218	thin epidermis	0.661287496	1.187326431
MP:0011088	partial neonatal lethality	0.662645366	1.187326769
GO:0006986	response to unfolded protein	0.659828563	1.187330648
GO:0060438	trachea development	0.662315806	1.187332766
ENSG00000123066	MED13L subnetwork	0.656146084	1.187345111
GO:0007204	elevation of cytosolic calcium ion concentration	0.6658582	1.187345754
GO:0030219	megakaryocyte differentiation	0.660313286	1.187352116
ENSG00000136521	NDUFB5 subnetwork	0.661103814	1.187359893
ENSG00000116141	MARK1 subnetwork	0.665945365	1.187365429
MP:0001044	abnormal enteric nervous system morphology	0.655928932	1.187371134
ENSG00000152822	GRM1 subnetwork	0.659540867	1.187379411
MP:0009358	environmentally induced seizures	0.871595447	1.187380416
MP:0008995	early reproductive senescence	0.656091655	1.187386503
ENSG00000164438	TLX3 subnetwork	0.65901977	1.187388488
ENSG00000119041	GTF3C3 subnetwork	0.661237895	1.187391887
ENSG00000112079	STK38 subnetwork	0.656320565	1.187397277
MP:0003324	increased liver adenoma incidence	0.655461646	1.187404815
ENSG00000062038	CDH3 subnetwork	0.666166379	1.187410811

ENSG00000023608	SNAPC1 subnetwork	0.666307984	1.187413856
ENSG00000085999	RAD54L subnetwork	0.662842631	1.187414925
MP:0003871	abnormal myelin sheath morphology	0.660176827	1.187416128
ENSG00000204220	PFDN6 subnetwork	0.655179526	1.187417056
ENSG00000132692	BCAN subnetwork	0.662279198	1.187422455
GO:0031058	positive regulation of histone modification	0.654888095	1.187429309
GO:0008340	determination of adult lifespan	0.658663017	1.18743734
ENSG00000100075	SLC25A1 subnetwork	0.659139807	1.187445015
ENSG00000127527	EPS15L1 subnetwork	0.658403332	1.187451076
GO:0040018	positive regulation of multicellular organism growth	0.655835409	1.187453965
ENSG00000004897	CDC27 subnetwork	0.87157405	1.187454273
ENSG00000036257	CUL3 subnetwork	0.658987488	1.187478612
ENSG00000198336	MYL4 subnetwork	0.655917837	1.187486191
GO:0043410	positive regulation of MAPK cascade	0.871408062	1.187489446
ENSG00000163468	CCT3 subnetwork	0.659519356	1.1875
ENSG00000185963	BICD2 subnetwork	0.658533243	1.187501529
REACTOME_DNA_STRAND_ELONGATION	REACTOME_DNA_STRAND_ELONGATION	0.660162324	1.187512201
MP:0005402	abnormal action potential	0.871533148	1.187518762
GO:0045214	sarcomere organization	0.655778839	1.187519951
ENSG00000134453	RBM17 subnetwork	0.654998762	1.187523049
GO:0019201	nucleotide kinase activity	0.654871147	1.187526128
ENSG00000154518	ATP5G3 subnetwork	0.655448307	1.187532244
GO:0004536	deoxyribonuclease activity	0.659338473	1.187533594
REACTOME_TRANSPORT_OF_MATURE_MRNA_DERIVED	REACTOME_TRANSPORT_OF_MATURE_MRNA_DERIVED	0.659438523	1.187535117
MP:0003890	abnormal embryonic-extraembryonic boundary morphology	0.655068915	1.187543019
GO:0005041	low-density lipoprotein receptor activity	0.654422998	1.187543061
MP:0004607	abnormal cervical atlas morphology	0.66283962	1.187559256
ENSG00000206283	PFDN6 subnetwork	0.655179526	1.187562984
ENSG00000090487	SPG21 subnetwork	0.871380656	1.187563333
GO:0016592	mediator complex	0.658654902	1.187564197
ENSG00000101444	AHCY subnetwork	0.662278987	1.18756691
ENSG00000125775	SDCBP2 subnetwork	0.674873887	1.187592548
ENSG00000049245	VAMP3 subnetwork	0.654727392	1.187603001
GO:0060117	auditory receptor cell development	0.871343851	1.187604391
ENSG00000136695	IL36RN subnetwork	0.655750565	1.187610511
ENSG00000086475	SEPHS1 subnetwork	0.65930708	1.187617593
GO:0007632	visual behavior	0.667036392	1.187641942
GO:0051865	protein autoubiquitination	0.654864307	1.187653714
GO:0043409	negative regulation of MAPK cascade	0.654590152	1.187655308
ENSG00000138180	CEP55 subnetwork	0.871295364	1.187659535
MP:0005503	abnormal tendon morphology	0.655694362	1.187664252
GO:0090207	regulation of triglyceride metabolic process	0.666880081	1.187675205
ENSG00000113272	THG1L subnetwork	0.674847719	1.18768064
MP:0003828	pulmonary edema	0.871235161	1.187695917
MP:0008056	abnormal retinal ganglion cell morphology	0.67476564	1.18770903
GO:0043567	regulation of insulin-like growth factor receptor signaling	0.666755011	1.187726613
GO:0055070	copper ion homeostasis	0.666995358	1.187731062
ENSG00000013583	HEBP1 subnetwork	0.65472392	1.187742927
GO:0010874	regulation of cholesterol efflux	0.666685048	1.187743261
MP:0000313	abnormal cell death	0.674629448	1.18776583
ENSG00000185420	SMYD3 subnetwork	0.871221096	1.187788624
REACTOME_DNA_REPAIR	REACTOME_DNA_REPAIR	0.666850026	1.187800604
REACTOME_RESPIRATORY_ELECTRON_TRANSPORT	REACTOME_RESPIRATORY_ELECTRON_TRANSPORT	0.674736337	1.187809103
MP:0004384	small interparietal bone	0.667218672	1.187818577

ENSG00000159210	SNF8 subnetwork	0.674592696	1.187842036
GO:0009743	response to carbohydrate stimulus	0.871150411	1.1878438
ENSG00000100842	EFS subnetwork	0.667456459	1.187881898
ENSG00000166862	CACNG2 subnetwork	0.87109238	1.187884904
ENSG00000169925	BRD3 subnetwork	0.673278541	1.187919061
ENSG00000006744	ELAC2 subnetwork	0.667383673	1.187934783
ENSG00000115884	SDC1 subnetwork	0.67457321	1.187936185
ENSG00000143850	PLEKHA6 subnetwork	0.667579934	1.187949771
ENSG00000143106	PSMA5 subnetwork	0.871046227	1.187954183
ENSG00000103154	NECAB2 subnetwork	0.667823085	1.187973691
GO:0005839	proteasome core complex	0.86671627	1.187989248
REACTOME_REPAIR_SYNTHESIS_OF_PATCH_27:30_BASE	REACTOME_REPAIR_SYNTHESIS_OF_PATCH_27:30_BASE	0.871008766	1.188018779
GO:0070633	transepithelial transport	0.668085407	1.188020268
GO:0002577	regulation of antigen processing and presentation	0.673258856	1.188031373
ENSG00000206297	TAP1 subnetwork	0.674565499	1.188048285
GO:0030042	actin filament depolymerization	0.866673308	1.188063573
ENSG00000111445	RFC5 subnetwork	0.667700225	1.188065918
MP:0011495	abnormal head shape	0.667952747	1.188077712
GO:0008653	lipopolysaccharide metabolic process	0.673519909	1.188083553
GO:0051119	sugar transmembrane transporter activity	0.676592265	1.188088428
ENSG00000161395	PGAP3 subnetwork	0.866593014	1.188090746
ENSG00000135387	CAPRIN1 subnetwork	0.675276874	1.188095522
MP:0005455	increased susceptibility to weight gain	0.667819945	1.188111044
REACTOME_REPAIR_SYNTHESIS_FOR_GAP:FILLING_BY_I	REACTOME_REPAIR_SYNTHESIS_FOR_GAP:FILLING_BY_I	0.871008766	1.188130341
ENSG00000111845	PAK1IP1 subnetwork	0.668073504	1.188133446
ENSG00000157240	FZD1 subnetwork	0.673120069	1.188142292
GO:0048515	spermatid differentiation	0.667787446	1.188145823
GO:0004540	ribonuclease activity	0.675456324	1.188146114
ENSG00000065328	MCM10 subnetwork	0.676551901	1.188146603
GO:0005501	retinoid binding	0.67323228	1.188149701
MP:0002279	abnormal diaphragm morphology	0.86657811	1.188179245
MP:0003354	astrocytosis	0.870961765	1.188180879
MP:0008236	decreased susceptibility to neuronal excitotoxicity	0.675406985	1.188186485
GO:0051402	neuron apoptotic process	0.673497413	1.188189872
ENSG00000206233	ENSG00000206233 subnetwork	0.674565499	1.188190294
GO:0010718	positive regulation of epithelial to mesenchymal transition	0.673064381	1.188194777
GO:0042454	ribonucleoside catabolic process	0.673670072	1.188204668
GO:0034660	ncRNA metabolic process	0.676856789	1.188210413
GO:0015932	nucleobase-containing compound transmembrane transport	0.865841068	1.188211689
ENSG00000067225	PKM2 subnetwork	0.668268589	1.188214717
MP:0002622	abnormal cochlear hair cell morphology	0.676495295	1.188216712
ENSG00000116106	EPHA4 subnetwork	0.865783094	1.188238905
ENSG00000065618	COL17A1 subnetwork	0.677840285	1.188254195
ENSG00000174021	GNG5 subnetwork	0.865632163	1.188269739
MP:0005424	jerky movement	0.673033416	1.188271235
REACTOME_SYNTHESIS_SECRETION_AND_INACTIVATION	REACTOME_SYNTHESIS_SECRETION_AND_INACTIVATION	0.87095304	1.188278388
MP:0004101	abnormal brain interneuron morphology	0.866571545	1.188286631
GO:0051693	actin filament capping	0.865719016	1.188289735
ENSG00000196549	MME subnetwork	0.866098806	1.188295261
ENSG00000186979	ENSG00000186979 subnetwork	0.864051782	1.188297067
ENSG00000206172	HBA1 subnetwork	0.677787161	1.188300405
KEGG_OXIDATIVE_PHOSPHORYLATION	KEGG_OXIDATIVE_PHOSPHORYLATION	0.866206245	1.188301085
ENSG00000182010	RTKN2 subnetwork	0.866038384	1.188313037
ENSG00000083093	PALB2 subnetwork	0.86599016	1.188321375

GO:0007067	mitosis	0.863995199	1.188329076
ENSG00000168394	TAP1 subnetwork	0.674565499	1.188332337
ENSG00000099250	NRP1 subnetwork	0.866528071	1.188332704
REACTOME_DOUBLE:STRAND_BR	REACTOME_DOUBLE:STRAND_BREAK_REPAIR	0.67683829	1.188334128
GO:0050680	negative regulation of epithelial cell proliferation	0.672902267	1.188340324
GO:0015838	betaine transport	0.676066316	1.188345461
ENSG00000136153	LMO7 subnetwork	0.676492398	1.188358369
GO:0009394	2'-deoxyribonucleotide metabolic process	0.865609686	1.188363087
ENSG00000197299	BLM subnetwork	0.675838109	1.188365155
GO:0015101	organic cation transmembrane transporter activity	0.673010009	1.188377666
MP:0003888	liver hemorrhage	0.870930954	1.188380612
ENSG00000084092	NOA1 subnetwork	0.672841556	1.188380872
GO:0008635	activation of cysteine-type endopeptidase activity involv	0.674499127	1.188384744
MP:0001693	failure of primitive streak formation	0.867311556	1.188388648
MP:0000565	oligodactyly	0.867405469	1.188403884
GO:0031903	microbody membrane	0.870896407	1.188421794
GO:0009103	lipopolysaccharide biosynthetic process	0.677022526	1.188426257
ENSG00000206357	RDBP subnetwork	0.678612093	1.188431815
GO:0052312	modulation of transcription in other organism involved in	0.6776657	1.188434524
MP:0001922	reduced male fertility	0.866506678	1.188435406
GO:0000280	nuclear division	0.863995199	1.188441522
ENSG00000188536	HBA2 subnetwork	0.677787161	1.188441852
GO:0018196	peptidyl-asparagine modification	0.870334699	1.188442376
GO:0007602	phototransduction	0.669673642	1.188446719
MP:0002886	abnormal glutamate-mediated receptor currents	0.675809712	1.188447309
GO:0071158	positive regulation of cell cycle arrest	0.866420781	1.188448471
GO:0046697	decidualization	0.870503208	1.188449248
GO:0030666	endocytic vesicle membrane	0.675960401	1.188450066
ENSG00000111664	GNB3 subnetwork	0.673856228	1.188451412
GO:0051233	spindle midzone	0.870773691	1.188457202
GO:0019884	antigen processing and presentation of exogenous antigen	0.670003135	1.188458298
GO:0034593	phosphatidylinositol bisphosphate phosphatase activity	0.674466942	1.188467057
ENSG00000163104	SMARCA4 subnetwork	0.677503229	1.188467492
ENSG00000164162	ANAPC10 subnetwork	0.67646212	1.188470252
ENSG00000124357	NAGK subnetwork	0.865600262	1.188475345
GO:0055102	lipase inhibitor activity	0.8672682	1.188477133
GO:0007338	single fertilization	0.870699359	1.188484307
GO:0015879	carnitine transport	0.676066316	1.188487235
ENSG00000132485	ZRANB2 subnetwork	0.864289882	1.188492101
GO:0043255	regulation of carbohydrate biosynthetic process	0.668796899	1.188503738
ENSG00000166225	FRS2 subnetwork	0.672821633	1.188505334
GO:0032434	regulation of proteasomal ubiquitin-dependent protein c	0.675746389	1.18850561
MP:0001745	increased circulating corticosterone level	0.865551604	1.188507322
ENSG00000152795	HNRPDL subnetwork	0.669787049	1.188514327
ENSG00000093000	NUP50 subnetwork	0.669543832	1.188528243
MP:0000160	kyphosis	0.864598819	1.188528466
GO:0033146	regulation of intracellular estrogen receptor signaling pa	0.669640266	1.188529624
GO:0022600	digestive system process	0.870644917	1.188530213
MP:0000008	increased white adipose tissue amount	0.867217262	1.188532629
GO:0005778	peroxisomal membrane	0.870896407	1.188533446
REACTOME_METABOLISM_OF_NI	REACTOME_METABOLISM_OF_NUCLEOTIDES	0.870485994	1.188537457
ENSG00000072415	MPP5 subnetwork	0.863988205	1.188549257
GO:0018279	protein N-linked glycosylation via asparagine	0.870334699	1.188554104
MP:0010420	muscular ventricular septal defect	0.678092334	1.188564969

GO:0000421	autophagic vacuole membrane	0.86381978	1.18856602
GO:0007498	mesoderm development	0.669900541	1.188569881
ENSG00000138468	SENK1 subnetwork	0.863491846	1.18857224
ENSG00000175595	ERCC4 subnetwork	0.865516529	1.188572373
MP:0002824	abnormal chorioallantoic fusion	0.674038244	1.188572454
ENSG00000206268	RDBP subnetwork	0.678612093	1.188573127
GO:0019829	cation-transporting ATPase activity	0.863732228	1.188574404
MP:0002842	increased systemic arterial blood pressure	0.677663246	1.188576021
GO:0021794	thalamus development	0.863075721	1.1885763
GO:0001965	G-protein alpha-subunit binding	0.668682385	1.188579354
ENSG00000160746	ANO10 subnetwork	0.870271412	1.188581234
GO:0045661	regulation of myoblast differentiation	0.863927987	1.188581299
ENSG00000080603	SRAP subnetwork	0.669990474	1.188583293
GO:0042573	retinoic acid metabolic process	0.670416801	1.188584145
ENSG00000157020	SEC13 subnetwork	0.864714878	1.188586288
ENSG00000151366	NDUFC2 subnetwork	0.668765391	1.18858676
ENSG00000203814	HIST2H2BF subnetwork	0.670362312	1.188588787
GO:0044253	positive regulation of multicellular organismal metabolic	0.674204496	1.188593133
MP:0002685	abnormal spermatogonia proliferation	0.861389134	1.188593661
GO:0006633	fatty acid biosynthetic process	0.674297992	1.188594498
GO:0032008	positive regulation of TOR signaling cascade	0.672608437	1.188597122
MP:0003400	kinked neural tube	0.67278208	1.188599856
MP:0008428	abnormal spatial working memory	0.677491893	1.188609027
MP:0000372	irregular coat pigmentation	0.674464307	1.188609184
MP:0003648	abnormal radial glial cell morphology	0.863633674	1.18861119
ENSG00000162407	PPAP2B subnetwork	0.68080027	1.188611572
MP:0002625	heart left ventricle hypertrophy	0.676461501	1.188611972
KEGG_BUTANOATE_METABOLISM	KEGG_BUTANOATE_METABOLISM	0.870119974	1.188616701
ENSG00000078140	UBE2K subnetwork	0.669524139	1.188617201
ENSG00000106462	EZH2 subnetwork	0.668623223	1.188626221
GO:0001523	retinoid metabolic process	0.870210445	1.188627174
GO:0017022	myosin binding	0.861165297	1.188628382
ENSG00000112640	PPP2R5D subnetwork	0.864582192	1.18863142
MP:0004738	abnormal brainstem auditory evoked potential	0.863433041	1.188642174
MP:0008151	increased diameter of long bones	0.861516249	1.18864693
ENSG00000110436	SLC1A2 subnetwork	0.86329594	1.188649493
GO:0001104	RNA polymerase II transcription cofactor activity	0.669467491	1.18865197
GO:0060600	dichotomous subdivision of an epithelial terminal unit	0.865480352	1.188656336
ENSG00000143418	CERS2 subnetwork	0.864861416	1.188658283
MP:0002404	increased intestinal adenoma incidence	0.864484847	1.188658721
MP:0003868	abnormal feces composition	0.86334363	1.188664773
ENSG00000197746	PSAP subnetwork	0.86305316	1.188665214
ENSG00000173349	SFT2D3 subnetwork	0.670334334	1.188665624
GO:0002762	negative regulation of myeloid leukocyte differentiation	0.672569292	1.188667706
MP:0002954	abnormal aerobic energy metabolism	0.861351058	1.188673247
MP:0005449	abnormal food intake	0.861084637	1.188679514
MP:0001045	abnormal enteric ganglia morphology	0.870078081	1.188681463
ENSG00000106392	C1GALT1 subnetwork	0.67023591	1.188694344
GO:0007098	centrosome cycle	0.669414466	1.188698795
REACTOME_ACTIVATION_OF_KAI	REACTOME_ACTIVATION_OF_KAINATE_RECEPTORS_UP	0.676426376	1.18870006
ENSG00000155980	KIF5A subnetwork	0.672757148	1.188712385
ENSG00000108774	RAB5C subnetwork	0.678909553	1.188712553
ENSG00000204356	RDBP subnetwork	0.678612093	1.188714473
GO:0046112	nucleobase biosynthetic process	0.8632518	1.188714719

ENSG00000070010	UFD1L subnetwork	0.668992009	1.188716094
ENSG00000175216	CKAP5 subnetwork	0.672180933	1.188720902
ENSG00000123124	WWP1 subnetwork	0.679076751	1.188721179
ENSG00000137975	CLCA2 subnetwork	0.67419311	1.188723379
REACTOME_A_THIRD_PROTEOLY	REACTOME_A_THIRD_PROTEOLYTIC_CLEAVAGE_RELEASE	0.861303848	1.188724374
REACTOME_PASSIVE_TRANSPORT	REACTOME_PASSIVE_TRANSPORT_BY_AQUAPORINS	0.672508119	1.188726313
ENSG00000173801	JUP subnetwork	0.669355971	1.188727558
ENSG00000156076	WIF1 subnetwork	0.680786133	1.188728804
ENSG00000108963	DPH1 subnetwork	0.676366062	1.188734494
MP:0010103	small thoracic cage	0.865004693	1.188734991
REACTOME_SYNTHESIS_AND_INT	REACTOME_SYNTHESIS_AND_INTERCONVERSION_OF_N	0.677483777	1.188738685
GO:0046661	male sex differentiation	0.865467016	1.188740314
GO:0065004	protein-DNA complex assembly	0.867838343	1.188740692
MP:0009288	increased epididymal fat pad weight	0.67446053	1.188745365
MP:0003308	abnormal cochlear sensory epithelium morphology	0.863043468	1.188749408
GO:0060041	retina development in camera-type eye	0.865091974	1.188754963
ENSG00000109534	GAR1 subnetwork	0.677389263	1.188761167
ENSG00000122180	MYOG subnetwork	0.670606501	1.188765937
GO:0032543	mitochondrial translation	0.861073115	1.188773379
ENSG00000158373	HIST1H2BD subnetwork	0.680983686	1.188778897
REACTOME_FORMATION_OF_TUI	REACTOME_FORMATION_OF_TUBULIN_FOLDING_INTEF	0.669309315	1.188780429
REACTOME_TRANSPORT_OF_MA	REACTOME_TRANSPORT_OF_MATURE_MRNAS_DERIVEI	0.672308215	1.188782244
GO:0001833	inner cell mass cell proliferation	0.861895965	1.188782963
GO:0007031	peroxisome organization	0.865434816	1.188786504
ENSG00000104177	MYEF2 subnetwork	0.870077911	1.188793266
ENSG00000152556	PFKM subnetwork	0.863014337	1.188800455
MP:0006126	abnormal outflow tract development	0.867804299	1.188805618
MP:0002192	hydrops fetalis	0.671133704	1.188811441
GO:0016891	endoribonuclease activity, producing 5'-phosphomono	0.679197577	1.188811646
ENSG00000132182	NUP210 subnetwork	0.669121835	1.188813886
ENSG00000130402	ACTN4 subnetwork	0.862844855	1.188817286
ENSG00000115275	MOGS subnetwork	0.862932931	1.188818345
GO:0007257	activation of JUN kinase activity	0.87001005	1.188825134
ENSG00000206208	TAPBP subnetwork	0.678587	1.188832065
GO:0046329	negative regulation of JNK cascade	0.861032644	1.188838777
ENSG00000182809	CRIP2 subnetwork	0.681107662	1.188839497
GO:0010812	negative regulation of cell-substrate adhesion	0.672159054	1.188845554
GO:0070303	negative regulation of stress-activated protein kinase sig	0.679067383	1.188850588
GO:0043552	positive regulation of phosphatidylinositol 3-kinase activ	0.672498196	1.188850906
ENSG00000179715	FAM113B subnetwork	0.669251119	1.188851392
GO:0035240	dopamine binding	0.86538088	1.188856333
GO:0046888	negative regulation of hormone secretion	0.869603539	1.188858568
ENSG00000197961	ZNF121 subnetwork	0.680776271	1.188869782
MP:0004773	abnormal bile composition	0.6812306	1.188870452
ENSG00000096401	CDC5L subnetwork	0.869946733	1.188871119
GO:0009620	response to fungus	0.861886849	1.188886254
GO:0006271	DNA strand elongation involved in DNA replication	0.860349457	1.188895752
ENSG00000073111	MCM2 subnetwork	0.861793283	1.188899431
GO:0031571	mitotic cell cycle G1/S transition DNA damage checkpoin	0.862834858	1.188906265
ENSG00000160957	RECQL4 subnetwork	0.869869276	1.188907705
ENSG00000072778	ACADVL subnetwork	0.869225876	1.18890981
ENSG00000064419	TNPO3 subnetwork	0.868049982	1.188925542
GO:0032321	positive regulation of Rho GTPase activity	0.671299785	1.188926941
REACTOME_OLFACTORY_SIGNALI	REACTOME_OLFACTORY_SIGNALING_PATHWAY	0.862752287	1.188933649

ENSG00000185359	HGS subnetwork	0.860316788	1.188937464
GO:0006418	tRNA aminoacylation for protein translation	0.865342455	1.188940354
GO:0001558	regulation of cell growth	0.672473698	1.188945537
ENSG00000072682	P4HA2 subnetwork	0.672139204	1.188946231
GO:0010243	response to organic nitrogen	0.861031152	1.188946919
ENSG00000125798	FOXA2 subnetwork	0.869585598	1.188946923
GO:0006888	ER to Golgi vesicle-mediated transport	0.868171283	1.188950146
ENSG00000185130	HIST1H2BL subnetwork	0.671133319	1.188954327
MP:0003690	abnormal glial cell physiology	0.869441519	1.188963667
ENSG00000212789	ENSG00000212789 subnetwork	0.86899072	1.188972596
ENSG00000112493	TAPBP subnetwork	0.678587	1.188973474
MP:0002696	decreased circulating glucagon level	0.869198688	1.188974673
ENSG00000151348	EXT2 subnetwork	0.672103222	1.188974913
GO:0031668	cellular response to extracellular stimulus	0.680401306	1.188981844
GO:0007528	neuromuscular junction development	0.671069267	1.188983051
ENSG00000141034	C17orf39 subnetwork	0.680746345	1.188987072
MP:0005317	increased triglyceride level	0.869837596	1.188991344
ENSG00000148248	SURF4 subnetwork	0.862352562	1.188999526
GO:0060571	morphogenesis of an epithelial fold	0.869386159	1.189000282
GO:0032313	regulation of Rab GTPase activity	0.860280449	1.189002946
ENSG00000122779	TRIM24 subnetwork	0.670866372	1.189009139
MP:0005225	abnormal vertebrae development	0.679787244	1.189014252
ENSG00000115361	ACADL subnetwork	0.671432296	1.189018383
REACTOME_PROSTACYCLIN_SIGN	REACTOME_PROSTACYCLIN_SIGNALING_THROUGH_PR	0.868605369	1.189020254
MP:0004819	decreased skeletal muscle mass	0.862476398	1.189029016
GO:0031529	ruffle organization	0.86955522	1.189030588
GO:0051150	regulation of smooth muscle cell differentiation	0.869150182	1.18903484
KEGG_OTHER_GLYCAN_DEGRAD	KEGG_OTHER_GLYCAN_DEGRADATION	0.862648146	1.189035836
GO:0042537	benzene-containing compound metabolic process	0.670925498	1.189040519
GO:0006936	muscle contraction	0.86275149	1.189041615
ENSG00000133392	MYH11 subnetwork	0.679894017	1.189057119
ENSG00000181610	MRPS23 subnetwork	0.861029689	1.189059829
MP:0011423	kidney cortex atrophy	0.679742907	1.189060458
ENSG00000186842	ENSG00000186842 subnetwork	0.680346041	1.189063613
ENSG00000078328	RBFOX1 subnetwork	0.868382103	1.18907369
ENSG00000076248	UNG subnetwork	0.868984212	1.189079864
GO:0004712	protein serine/threonine/tyrosine kinase activity	0.67082038	1.189079976
MP:0000035	abnormal membranous labyrinth morphology	0.868553689	1.18908046
ENSG00000186318	BACE1 subnetwork	0.862314665	1.189083839
GO:0017025	TBP-class protein binding	0.678474801	1.189089827
MP:0005290	decreased oxygen consumption	0.671033022	1.189089925
ENSG00000077157	PPP1R12B subnetwork	0.681442237	1.189091017
MP:0010465	aberrant origin of the right subclavian artery	0.672089716	1.18909964
ENSG00000103496	STX4 subnetwork	0.6796438	1.189100737
GO:0070585	protein localization in mitochondrion	0.679542037	1.189111322
ENSG00000206281	TAPBP subnetwork	0.678587	1.189114918
GO:0032483	regulation of Rab protein signal transduction	0.860280449	1.18911597
ENSG00000160271	RALGDS subnetwork	0.862244755	1.189116001
REACTOME_RESOLUTION_OF_AB	REACTOME_RESOLUTION_OF_ABASIC_SITES_AP_SITES	0.680741411	1.189116251
GO:0031201	SNARE complex	0.862613601	1.189120129
ENSG00000107614	TRDMT1 subnetwork	0.860634938	1.18912114
ENSG00000126457	PRMT1 subnetwork	0.680198291	1.189126306
REACTOME_MITOTIC_G1:G1S_PH	REACTOME_MITOTIC_G1:G1S_PHASES	0.868508391	1.189126543
GO:0019841	retinol binding	0.680312548	1.189145401

ENSG00000137944	CCBL2 subnetwork	0.860220511	1.189152961
ENSG00000183963	SMTN subnetwork	0.679486181	1.189157557
MP:0003446	renal hypoplasia	0.671584567	1.189157857
GO:0014002	astrocyte development	0.868835888	1.189157875
GO:0048070	regulation of developmental pigmentation	0.860585709	1.189162866
GO:0001893	maternal placenta development	0.868941898	1.189163606
REACTOME_VIRAL_MESSENGER	REACTOME_VIRAL_MESSENGER_RNA_SYNTHESIS	0.861026455	1.189168012
GO:0051412	response to corticosterone stimulus	0.859151314	1.189172854
GO:0032648	regulation of interferon-beta production	0.858978537	1.189175552
ENSG00000196226	HIST1H2BB subnetwork	0.671969147	1.189199087
ENSG00000117335	CD46 subnetwork	0.8590841	1.1892099
GO:0051147	regulation of muscle cell differentiation	0.672078506	1.1892304
ENSG00000100591	AHSA1 subnetwork	0.680064543	1.189236523
GO:0002026	regulation of the force of heart contraction	0.671716137	1.189237237
GO:0009582	detection of abiotic stimulus	0.860887535	1.189241949
REACTOME_BASE_EXCISION_REP	REACTOME_BASE_EXCISION_REPAIR	0.680741411	1.189257326
GO:0001822	kidney development	0.860219411	1.189261266
ENSG00000166963	MAP1A subnetwork	0.680197402	1.189267482
GO:0045778	positive regulation of ossification	0.680657441	1.189273849
ENSG00000186298	PPP1CC subnetwork	0.861020286	1.189276216
GO:0005540	hyaluronic acid binding	0.858975254	1.189288775
ENSG00000168593	ENSG00000168593 subnetwork	0.859396479	1.189289113
MP:0002907	abnormal parturition	0.671870457	1.189304588
MP:0005333	decreased heart rate	0.671949151	1.189311877
GO:0045920	negative regulation of exocytosis	0.860868721	1.18933118
ENSG0000010438	PRSS3 subnetwork	0.860214982	1.189374346
GO:0033764	steroid dehydrogenase activity, acting on the CH-OH gro	0.858973204	1.189402019
ENSG00000206440	NFKBIL1 subnetwork	0.859396479	1.189402303
GO:0007059	chromosome segregation	0.860208674	1.189473184
GO:0008334	histone mRNA metabolic process	0.858959393	1.189501
ENSG00000138069	RAB1A subnetwork	0.859826449	1.189506232
ENSG00000164327	RICTOR subnetwork	0.859626958	1.189518508
ENSG00000113448	PDE4D subnetwork	0.859734044	1.18952902
GO:0042074	cell migration involved in gastrulation	0.858922433	1.189566667
ENSG00000123992	DNPEP subnetwork	0.860196118	1.189567285
GO:0004993	serotonin receptor activity	0.859916475	1.189583333
GO:0045596	negative regulation of cell differentiation	0.858656204	1.189597028
MP:0008770	decreased survivor rate	0.860150401	1.189637626
GO:0055007	cardiac muscle cell differentiation	0.858588862	1.189662729
ENSG00000068878	PSME4 subnetwork	0.858922192	1.18967997
GO:0005814	centriole	0.858854183	1.189688512
GO:0021544	subpallium development	0.860147282	1.189746029
MP:0010724	thick interventricular septum	0.682097681	1.189752399
ENSG00000111602	TIMELESS subnetwork	0.682022425	1.189763033
ENSG00000164053	ATRIP subnetwork	0.858583978	1.18977132
GO:0032409	regulation of transporter activity	0.68197079	1.189838843
GO:0034385	triglyceride-rich lipoprotein particle	0.85857345	1.189875167
REACTOME_AMINE_LIGAND:BIN	REACTOME_AMINE_LIGAND:BINDING_RECEPTORS	0.858311021	1.189881803
KEGG_PROTEASOME	KEGG_PROTEASOME	0.682256011	1.189925373
MP:0002127	abnormal cardiovascular system morphology	0.857883913	1.189938966
GO:0042303	molting cycle	0.858280805	1.189961868
GO:0034361	very-low-density lipoprotein particle	0.85857345	1.189988564
GO:0007090	regulation of S phase of mitotic cell cycle	0.85801783	1.189997139
ENSG00000176884	GRIN1 subnetwork	0.68239128	1.190045008

GO:0042403	thyroid hormone metabolic process	0.857880744	1.190052456
MP:0001154	seminiferous tubule degeneration	0.858189664	1.190064836
GO:0042633	hair cycle	0.858280805	1.190075317
ENSG00000169896	ITGAM subnetwork	0.682517593	1.190081715
GO:0030511	positive regulation of transforming growth factor beta re	0.858563233	1.190092451
MP:0006011	abnormal endolymphatic duct morphology	0.857848044	1.190108737
ENSG00000115254	ENSG00000115254 subnetwork	0.857785778	1.190136411
ENSG00000166033	HTRA1 subnetwork	0.857779793	1.190245182
MP:0009435	abnormal miniature inhibitory postsynaptic currents	0.857564653	1.190252863
ENSG00000197976	AKAP17A subnetwork	0.857680245	1.190263334
ENSG00000175482	POLD4 subnetwork	0.857508469	1.190323504
GO:0044439	peroxisomal part	0.857318897	1.190340746
GO:0019217	regulation of fatty acid metabolic process	0.857431714	1.190341668
GO:0044438	microbody part	0.857318897	1.190454372
ENSG00000174804	FZD4 subnetwork	0.857272054	1.19049642
GO:2001252	positive regulation of chromosome organization	0.684326796	1.190541179
GO:0061041	regulation of wound healing	0.857154295	1.190570992
MP:0003120	abnormal tracheal cartilage morphology	0.857248218	1.190590987
GO:0016651	oxidoreductase activity, acting on NADH or NADPH	0.857119663	1.190656035
MP:0000432	abnormal head morphology	0.684321448	1.190670054
ENSG00000168280	KIF5C subnetwork	0.682933861	1.190674956
ENSG00000145817	YIPF5 subnetwork	0.856747886	1.190718448
ENSG00000121552	CSTA subnetwork	0.857108452	1.19075542
GO:0050657	nucleic acid transport	0.684316288	1.19079896
GO:0006805	xenobiotic metabolic process	0.85674486	1.190832219
GO:0006944	cellular membrane fusion	0.684606206	1.190843573
ENSG00000083750	RRAGB subnetwork	0.857104945	1.190854823
GO:0003995	acyl-CoA dehydrogenase activity	0.857054094	1.19087783
ENSG00000169131	ZNF354A subnetwork	0.856982473	1.190886511
ENSG00000149925	ALDOA subnetwork	0.683520959	1.190894569
GO:0046034	ATP metabolic process	0.856718506	1.19090301
ENSG00000167880	EVPL subnetwork	0.683385698	1.190910167
GO:0050658	RNA transport	0.684316288	1.190939716
GO:0043296	apical junction complex	0.683327793	1.190962358
ENSG00000135390	ATP5G2 subnetwork	0.856498441	1.190962531
ENSG00000214517	PPME1 subnetwork	0.683976271	1.190964995
REACTOME_PEPTIDE_HORMONE_REACTOME_PEPTIDE_HORMONE_BIOSYNTHESIS		0.68388617	1.19096984
ENSG00000099204	ABLIM1 subnetwork	0.85667903	1.190973815
GO:0006099	tricarboxylic acid cycle	0.856599372	1.190992067
GO:0032432	actin filament bundle	0.683516638	1.191023669
ENSG00000139117	CPNE8 subnetwork	0.856475257	1.191038142
MP:0005547	abnormal Muller cell morphology	0.684796366	1.191045481
GO:0051236	establishment of RNA localization	0.684316288	1.191080506
ENSG00000115233	PSMD14 subnetwork	0.685358683	1.191081336
ENSG00000068354	TBC1D25 subnetwork	0.683250846	1.191096377
ENSG00000168398	BDKRB2 subnetwork	0.683327157	1.19110335
KEGG_NUCLEOTIDE_EXCISION_REPAIR	KEGG_NUCLEOTIDE_EXCISION_REPAIR	0.856441846	1.191104207
ENSG00000157927	RADIL subnetwork	0.683880209	1.191110717
ENSG00000167978	SRRM2 subnetwork	0.685303482	1.191133412
ENSG00000171793	CTPS subnetwork	0.683738082	1.191155939
MP:0006303	abnormal retinal nerve fiber layer morphology	0.683809793	1.191156986
GO:0031023	microtubule organizing center organization	0.684181327	1.191172993
ENSG00000037965	HOXC8 subnetwork	0.685048096	1.191189323
MP:0002191	abnormal artery morphology	0.685149081	1.191190364

MP:0006092	abnormal olfactory neuron morphology	0.68637617	1.191193115
GO:0042119	neutrophil activation	0.856432466	1.191203748
GO:0061025	membrane fusion	0.684300246	1.191209506
MP:0000435	shortened head	0.684961225	1.191211906
ENSG00000079950	STX7 subnetwork	0.685275531	1.191220923
ENSG00000172409	CLP1 subnetwork	0.685813329	1.191221239
MP:0001344	blepharoptosis	0.686498903	1.191270777
ENSG00000105287	PRKD2 subnetwork	0.685760933	1.191285107
ENSG00000166086	JAM3 subnetwork	0.856388958	1.191288965
GO:0032091	negative regulation of protein binding	0.686156172	1.191296143
GO:0007265	Ras protein signal transduction	0.686361037	1.191321778
GO:0007548	sex differentiation	0.688095226	1.191336313
GO:0061178	regulation of insulin secretion involved in cellular respon	0.856278752	1.191359028
GO:0032332	positive regulation of chondrocyte differentiation	0.686310603	1.191367925
MP:0008212	absent mature B cells	0.685718808	1.191372595
ENSG00000128609	NDUFA5 subnetwork	0.856374898	1.191398107
ENSG00000091513	TF subnetwork	0.687960183	1.191398988
MP:0000823	abnormal lateral ventricle morphology	0.687669479	1.191401836
MP:0004029	spontaneous chromosome breakage	0.6856312	1.191418791
MP:0002084	abnormal developmental patterning	0.686150837	1.191424864
GO:0001101	response to acid	0.68831228	1.191455957
MP:0001750	increased circulating follicle stimulating hormone level	0.688080582	1.191464706
GO:0035773	insulin secretion involved in cellular response to glucose	0.856278752	1.191472979
GO:0031528	microvillus membrane	0.855871942	1.191473684
REACTOME_FORMATION_OF_ATP	REACTOME_FORMATION_OF_ATP_BY_CHEMIOSMOTIC	0.688431014	1.1914746
GO:0005614	interstitial matrix	0.855518055	1.191484779
ENSG00000138594	TMOD3 subnetwork	0.686005198	1.19148773
GO:0016049	cell growth	0.687939561	1.191503883
ENSG00000100320	RBFox2 subnetwork	0.686747035	1.191507544
GO:0003013	circulatory system process	0.68765949	1.191530312
GO:0016327	apicolateral plasma membrane	0.687493315	1.191540092
GO:0031300	intrinsic to organelle membrane	0.687570749	1.191541088
ENSG00000128908	INO80 subnetwork	0.687872502	1.191549959
MP:0000198	hypophosphatemia	0.855469511	1.191555768
GO:0042311	vasodilation	0.856267857	1.191563038
ENSG00000128833	MYO5C subnetwork	0.686149172	1.191565412
ENSG00000080608	KIAA0020 subnetwork	0.688297991	1.191578452
GO:0046356	acetyl-CoA catabolic process	0.855867052	1.191582927
REACTOME_REGULATION_OF_GLUCOKINASE_BY_GLUCOSE	REACTOME_REGULATION_OF_GLUCOKINASE_BY_GLUCOSE	0.688617361	1.19159318
GO:0061098	positive regulation of protein tyrosine kinase activity	0.855399315	1.191598047
GO:0032069	regulation of nuclease activity	0.687469186	1.19163919
ENSG00000106829	TLE4 subnetwork	0.68872164	1.191641194
GO:0006914	autophagy	0.687411107	1.191655871
GO:0000132	establishment of mitotic spindle orientation	0.856261583	1.191677031
MP:0006264	decreased systemic arterial systolic blood pressure	0.687321671	1.191678445
MP:0006138	congestive heart failure	0.855843137	1.191682619
MP:0001292	abnormal lens vesicle development	0.856106844	1.19168979
ENSG00000142168	SOD1 subnetwork	0.687151752	1.191694156
MP:0008332	decreased lactotroph cell number	0.855388664	1.191697788
ENSG00000101745	ANKRD12 subnetwork	0.687079879	1.191704961
GO:0043616	keratinocyte proliferation	0.687267965	1.191730475
REACTOME_SPHINGOLIPID_DE_N	REACTOME_SPHINGOLIPID_DE_NOVO_BIOSYNTHESIS	0.687025363	1.191762904
ENSG00000105223	PLD3 subnetwork	0.855343944	1.191778395
GO:0051294	establishment of spindle orientation	0.856261583	1.191791045

REACTOME_REGULATION_OF_W/	REACTOME_REGULATION_OF_WATER_BALANCE_BY_RE	0.855841439	1.191796688
GO:0004222	metalloendopeptidase activity	0.855301644	1.191839862
ENSG00000138835	RGS3 subnetwork	0.689014284	1.191842971
GO:0070374	positive regulation of ERK1 and ERK2 cascade	0.687023834	1.191903359
ENSG00000136888	ATP6V1G1 subnetwork	0.855260478	1.19190613
MP:0004405	absent cochlear hair cells	0.689011495	1.19196544
ENSG00000185122	HSF1 subnetwork	0.690508091	1.192005865
ENSG00000198886	MT-ND4 subnetwork	0.690026568	1.192012911
GO:0010927	cellular component assembly involved in morphogenesis	0.855257402	1.192020308
ENSG00000159199	ATP5G1 subnetwork	0.690367991	1.19202839
ENSG00000197697	HIST1H2BE subnetwork	0.689219468	1.192049595
MP:0008586	disorganized photoreceptor outer segment	0.690833429	1.192049719
GO:0051635	bacterial cell surface binding	0.85519923	1.192077026
MP:0006362	abnormal male germ cell morphology	0.691349566	1.192090462
MP:0003233	prolonged QT interval	0.689993989	1.192100012
GO:0045777	positive regulation of blood pressure	0.689393955	1.192104336
ENSG00000170917	NUDT6 subnetwork	0.690709285	1.192124091
MP:0008515	thin retinal outer nuclear layer	0.690804779	1.192130878
GO:0007289	spermatid nucleus differentiation	0.690352797	1.192150651
ENSG00000167881	SRP68 subnetwork	0.689955407	1.192151914
GO:0009214	cyclic nucleotide catabolic process	0.855189194	1.192167289
ENSG00000140795	MYLK3 subnetwork	0.691327479	1.192195008
GO:0022401	negative adaptation of signaling pathway	0.691274006	1.192205813
MP:0002113	abnormal skeleton development	0.689926021	1.19222731
GO:0022406	membrane docking	0.689777578	1.192231356
GO:0044455	mitochondrial membrane part	0.689380603	1.192232667
GO:0000775	chromosome, centromeric region	0.689848435	1.192249883
ENSG00000086598	TMED2 subnetwork	0.691026853	1.192267558
MP:0010027	increased liver cholesterol level	0.855187022	1.192281525
ENSG00000117394	SLC2A1 subnetwork	0.690347078	1.192284675
ENSG00000177302	TOP3A subnetwork	0.689581948	1.192299107
GO:0023058	adaptation of signaling pathway	0.691274006	1.192345563
ENSG00000182117	NOP10 subnetwork	0.689774554	1.192359643
ENSG00000168646	AXIN2 subnetwork	0.691782123	1.192362657
GO:0046915	transition metal ion transmembrane transporter activity	0.689687277	1.192364619
GO:0070085	glycosylation	0.855160844	1.192371826
ENSG00000138439	FAM117B subnetwork	0.85508143	1.192375887
MP:0000043	organ of Corti degeneration	0.690314896	1.192383523
MP:0001575	cyanosis	0.691610294	1.192407733
GO:0070507	regulation of microtubule cytoskeleton organization	0.855029288	1.192437458
MP:0006030	abnormal otic vesicle development	0.691753717	1.192449625
ENSG00000109061	MYH1 subnetwork	0.854786	1.192473634
MP:0001052	abnormal muscle innervation	0.854969189	1.192475077
GO:0002029	desensitization of G-protein coupled receptor protein sig	0.691274006	1.192485346
KEGG_PRIMARY_BILE_ACID_BIOS	KEGG_PRIMARY_BILE_ACID_BIOSYNTHESIS	0.854930527	1.192517496
GO:0008015	blood circulation	0.692618609	1.192545348
GO:0016779	nucleotidyltransferase activity	0.854777934	1.192568799
ENSG00000164331	ANKRA2 subnetwork	0.854726697	1.192611239
GO:0006661	phosphatidylinositol biosynthetic process	0.692572114	1.192632257
GO:0004673	protein histidine kinase activity	0.692103005	1.192639653
ENSG00000135218	CD36 subnetwork	0.692490088	1.192648952
REACTOME_GPCR_LIGAND_BINDING	REACTOME_GPCR_LIGAND_BINDING	0.692749779	1.192669085
ENSG00000109103	UNC119 subnetwork	0.854703921	1.19270164
MP:0002081	perinatal lethality	0.854346257	1.192732419

ENSG00000105088	OLFM2 subnetwork	0.854652066	1.192748897
GO:0000155	two-component sensor activity	0.692103005	1.192779339
ENSG00000177688	SUMO4 subnetwork	0.692480155	1.192782721
ENSG00000175084	DES subnetwork	0.693118592	1.192817873
MP:0001724	abnormal extraembryonic endoderm formation	0.854310606	1.192822875
REACTOME_MEIOTIC_RECOMBIN	REACTOME_MEIOTIC_RECOMBINATION	0.694479264	1.19284213
GO:0034375	high-density lipoprotein particle remodeling	0.854646647	1.192863309
ENSG00000173218	VANGL1 subnetwork	0.692463665	1.192898958
GO:0034405	response to fluid shear stress	0.69346539	1.192902245
MP:0002608	increased hematocrit	0.693351365	1.19291311
REACTOME_REGULATION_OF_OR	REACTOME_REGULATION_OF_ORNITHINE_DECARBOXYL	0.854279704	1.192918146
ENSG00000121486	TRMT1L subnetwork	0.69310731	1.192922321
REACTOME_SIGNALING_BY_INSU	REACTOME_SIGNALING_BY_INSULIN_RECEPTOR	0.854603455	1.192939371
ENSG00000145386	CCNA2 subnetwork	0.694339121	1.192945573
MP:0005146	decreased circulating VLDL cholesterol level	0.697072862	1.192949389
ENSG00000061337	LZTS1 subnetwork	0.694475645	1.192981432
ENSG00000175536	LIPT2 subnetwork	0.692426547	1.192985948
ENSG00000197170	PSMD12 subnetwork	0.697021438	1.192989295
ENSG00000006638	TBXA2R subnetwork	0.693061162	1.192991693
MP:0003864	abnormal midbrain development	0.854274335	1.193013436
MP:0005172	reduced eye pigmentation	0.693692013	1.193014964
GO:0002495	antigen processing and presentation of peptide antigen	0.693323143	1.193017544
ENSG00000115307	AUP1 subnetwork	0.694307456	1.193032356
MP:0000141	abnormal vertebral body morphology	0.693799953	1.193045003
GO:0051100	negative regulation of binding	0.697595683	1.193046512
ENSG00000101040	ZMYND8 subnetwork	0.693625434	1.193055068
GO:0016757	transferase activity, transferring glycosyl groups	0.69406779	1.193059126
ENSG00000104290	FZD3 subnetwork	0.852954526	1.193070639
ENSG00000206181	TCEB3B subnetwork	0.854227222	1.193075151
GO:0006505	GPI anchor metabolic process	0.696785737	1.193079967
GO:0015926	glucosidase activity	0.694265426	1.193084112
GO:0061082	myeloid leukocyte cytokine production	0.69753179	1.193103849
GO:0030149	sphingolipid catabolic process	0.697017597	1.19311649
GO:0045095	keratin filament	0.852913577	1.193122837
GO:0006084	acetyl-CoA metabolic process	0.694034587	1.193134276
GO:0051082	unfolded protein binding	0.697446397	1.193137939
ENSG00000088305	DNMT3B subnetwork	0.693954695	1.193139317
MP:0004259	small placenta	0.694205076	1.193141722
GO:0050920	regulation of chemotaxis	0.697275754	1.193147976
GO:0071156	regulation of cell cycle arrest	0.852845999	1.19315582
KEGG_FOLATE_BIOSYNTHESIS	KEGG_FOLATE_BIOSYNTHESIS	0.85319208	1.19316806
MP:0000149	abnormal scapula morphology	0.852736746	1.193168926
ENSG00000154723	ATP5J subnetwork	0.694819327	1.193182349
GO:0009067	aspartate family amino acid biosynthetic process	0.697383866	1.193189485
ENSG00000107290	SETX subnetwork	0.85422627	1.193189672
GO:0052472	modulation by host of symbiont transcription	0.696684614	1.193194784
ENSG00000213672	NCKIPSD subnetwork	0.696764284	1.193195576
GO:0055080	cation homeostasis	0.852684267	1.193201923
MP:0002725	abnormal vein morphology	0.853385973	1.193202997
REACTOME_REGULATION_OF_GE	REACTOME_REGULATION_OF_GENE_EXPRESSION_IN_BI	0.85279506	1.19320323
ENSG00000198938	MT-CO3 subnetwork	0.852220814	1.19321243
MP:0000827	dilated third ventricle	0.853470408	1.193213256
GO:0016709	oxidoreductase activity, acting on paired donors, with in	0.853602693	1.193213908
ENSG00000198056	PRIM1 subnetwork	0.695239343	1.193238829

GO:0007254	JNK cascade	0.694795807	1.193245768
GO:0055072	iron ion homeostasis	0.852309315	1.193251563
MP:0009243	hairpin sperm flagellum	0.694927803	1.193253181
GO:0046466	membrane lipid catabolic process	0.697017597	1.193255354
ENSG00000066468	FGFR2 subnetwork	0.69532837	1.193268782
ENSG00000152818	UTRN subnetwork	0.852420795	1.19327626
GO:0005765	lysosomal membrane	0.852653202	1.1932782
GO:0045263	proton-transporting ATP synthase complex, coupling fac	0.696115329	1.193281669
MP:0005253	abnormal eye physiology	0.853190579	1.193282722
ENSG00000120498	TEX11 subnetwork	0.696290969	1.193283234
GO:0048285	organelle fission	0.853365872	1.193284012
GO:0030641	regulation of cellular pH	0.8513842	1.193287104
MP:0001306	small lens	0.85420347	1.193289815
GO:0016471	vacuolar proton-transporting V-type ATPase complex	0.853753546	1.193296197
ENSG00000112118	MCM3 subnetwork	0.695441261	1.193298729
MP:0005491	pancreatic islet hyperplasia	0.695209244	1.193308051
MP:0000284	double outlet heart right ventricle	0.850285722	1.193317261
GO:0033144	negative regulation of intracellular steroid hormone rece	0.852214885	1.193317618
REACTOME_EXPORT_OF_VIRAL_F	REACTOME_EXPORT_OF_VIRAL_RIBONUCLEOPROTEINS	0.695053548	1.193318161
GO:0060043	regulation of cardiac muscle cell proliferation	0.850218609	1.193326261
GO:0043921	modulation by host of viral transcription	0.696684614	1.193333721
GO:0071466	cellular response to xenobiotic stimulus	0.852622767	1.193344874
GO:0001750	photoreceptor outer segment	0.695975524	1.193350041
GO:0050654	chondroitin sulfate proteoglycan metabolic process	0.849540931	1.193350063
GO:0045600	positive regulation of fat cell differentiation	0.849734049	1.193356171
GO:0006956	complement activation	0.84989124	1.193362277
GO:2001251	negative regulation of chromosome organization	0.851363781	1.193373146
GO:0042953	lipoprotein transport	0.849666041	1.193379656
MP:0003729	abnormal photoreceptor outer segment morphology	0.696065704	1.193379953
GO:0000090	mitotic anaphase	0.854197794	1.193389977
REACTOME_P130CAS_LINKAGE_T	REACTOME_P130CAS_LINKAGE_TO_MAPK_SIGNALING	0.695585128	1.193392815
GO:0006007	glucose catabolic process	0.849852738	1.193400232
ENSG00000105402	NAPA subnetwork	0.852199107	1.193418014
ENSG00000196072	BLOC1S2 subnetwork	0.695916825	1.193419212
KEGG_ALPHA_LINOLENIC_ACID_N	KEGG_ALPHA_LINOLENIC_ACID_METABOLISM	0.696289901	1.193422279
ENSG00000096746	HNRNPH3 subnetwork	0.695195592	1.19342397
MP:0001410	head bobbing	0.850199137	1.19342689
GO:0015908	fatty acid transport	0.850593296	1.193430059
MP:0000928	incomplete cephalic closure	0.854147379	1.193442151
GO:0009410	response to xenobiotic stimulus	0.852622767	1.193459652
ENSG00000136002	ARHGEF4 subnetwork	0.695869682	1.193465081
REACTOME_REGULATION_OF_DN	REACTOME_REGULATION_OF_DNA_REPLICATION	0.84953691	1.193465251
ENSG00000118680	MYL12B subnetwork	0.696680722	1.193466869
ENSG00000188157	AGRN subnetwork	0.851325302	1.193468837
GO:0046851	negative regulation of bone remodeling	0.696623502	1.193483578
ENSG00000163631	ALB subnetwork	0.854106916	1.193494335
MP:0003720	abnormal neural tube closure	0.852158195	1.19349437
REACTOME_ER:PHAGOSOME_PA	REACTOME_ER:PHAGOSOME_PATHWAY	0.854008675	1.193498511
MP:0005431	decreased oocyte number	0.850181168	1.19351307
ENSG00000142252	GEMIN7 subnetwork	0.851158677	1.193525388
ENSG00000104313	EYA1 subnetwork	0.850578046	1.193525839
GO:0045930	negative regulation of mitotic cell cycle	0.702289234	1.19352676
MP:0002828	abnormal renal glomerular capsule morphology	0.695818	1.193528451
MP:0001963	abnormal hearing physiology	0.850766443	1.193541546

GO:0010576	metalloenzyme regulator activity	0.70222934	1.193543353
ENSG00000072401	UBE2D1 subnetwork	0.851067781	1.193544035
GO:0032410	negative regulation of transporter activity	0.849514674	1.193551501
GO:0071451	cellular response to superoxide	0.700079566	1.193565217
GO:0060766	negative regulation of androgen receptor signaling pathway	0.850864226	1.193580723
MP:0006036	abnormal mitochondrial physiology	0.850985121	1.19358196
GO:0043536	positive regulation of blood vessel endothelial cell migration	0.851325156	1.193583815
GO:0042559	pteridine-containing compound biosynthetic process	0.852003278	1.193583943
GO:0051597	response to methylmercury	0.85174106	1.193586904
ENSG00000136824	SMC2 subnetwork	0.696608052	1.193587653
GO:0033059	cellular pigmentation	0.851850287	1.193601964
ENSG00000155561	NUP205 subnetwork	0.848834382	1.1936051
REACTOME_XENOBIOTICS	REACTOME_XENOBIOTICS	0.852155055	1.19360924
GO:0015914	phospholipid transport	0.69945239	1.193611466
GO:0055012	ventricular cardiac muscle cell differentiation	0.851953704	1.193621835
ENSG00000154262	ABCA6 subnetwork	0.849467898	1.193623286
GO:0016528	sarcoplasm	0.850179256	1.193623384
ENSG00000023228	NDUFS1 subnetwork	0.700190993	1.193623928
GO:0051493	regulation of cytoskeleton organization	0.699627434	1.193630352
ENSG00000162402	USP24 subnetwork	0.850945855	1.193634348
GO:0006693	prostaglandin metabolic process	0.850567076	1.193636101
GO:0009584	detection of visible light	0.847828467	1.193636979
GO:0000075	cell cycle checkpoint	0.849409614	1.193646809
MP:0010300	increased skin tumor incidence	0.702204421	1.193652445
ENSG00000043355	ZIC2 subnetwork	0.852104101	1.193656752
ENSG00000184432	COPB2 subnetwork	0.695817225	1.193667638
ENSG00000144736	SHQ1 subnetwork	0.85171402	1.193668143
ENSG00000198554	WDHD1 subnetwork	0.849006085	1.193673331
MP:0000733	abnormal muscle development	0.849113506	1.193673942
GO:0006544	glycine metabolic process	0.849319892	1.19368482
REACTOME_BETA_DEFENSINS	REACTOME_BETA_DEFENSINS	0.700294636	1.19368842
ENSG00000213699	C2orf18 subnetwork	0.847934995	1.193690775
ENSG00000206287	RING1 subnetwork	0.848806784	1.193691431
ENSG00000101255	TRIB3 subnetwork	0.699427033	1.193703575
GO:0019430	removal of superoxide radicals	0.700079566	1.193703618
GO:0022904	respiratory electron transport chain	0.699779976	1.193706497
ENSG00000166483	WEE1 subnetwork	0.696607071	1.193726701
ENSG00000135624	CCT7 subnetwork	0.702175491	1.193726873
ENSG00000205022	PABPN1L subnetwork	0.700767782	1.193738415
GO:0005542	folic acid binding	0.847825099	1.193752418
ENSG00000147274	RBMX subnetwork	0.699611586	1.193757252
MP:0005297	spina bifida occulta	0.847770682	1.193785666
GO:0009378	four-way junction helicase activity	0.704215122	1.193789644
ENSG00000135404	CD63 subnetwork	0.849310572	1.193790439
ENSG00000125965	GDF5 subnetwork	0.702124997	1.193795536
ENSG00000120694	HSPH1 subnetwork	0.699312805	1.193800789
ENSG00000204227	RING1 subnetwork	0.848806784	1.193806763
ENSG00000100823	APEX1 subnetwork	0.699118087	1.193810961
MP:0005102	abnormal iris pigmentation	0.699401922	1.193813117
GO:0019866	organelle inner membrane	0.700738187	1.193818793
ENSG00000104976	SNAPC2 subnetwork	0.848317511	1.193823103
ENSG00000092850	TEKT2 subnetwork	0.699904905	1.193823222
KEGG_PROXIMAL_TUBULE_BICARBONATE_RECLAMATION	KEGG_PROXIMAL_TUBULE_BICARBONATE_RECLAMATION	0.698970143	1.193832753
ENSG00000186111	PIP5K1C subnetwork	0.700872211	1.1938376

GO:0071450	cellular response to oxygen radical	0.700079566	1.19384205
ENSG00000102081	FMR1 subnetwork	0.848125556	1.193846079
ENSG00000080815	PSEN1 subnetwork	0.699989378	1.193847135
MP:0002233	abnormal nose morphology	0.848248498	1.193851508
ENSG00000104142	VPS18 subnetwork	0.699232487	1.193852316
ENSG00000183814	LIN9 subnetwork	0.700663489	1.193852839
MP:0004624	abnormal thoracic cage morphology	0.8477322	1.193867286
ENSG00000134255	CEPT1 subnetwork	0.699091981	1.193885728
KEGG_SNARE_INTERACTIONS_IN_KEGG_SNARE_INTERACTIONS_IN_VESICULAR_TRANSPORT		0.700604849	1.193898482
GO:0060740	prostate gland epithelium morphogenesis	0.704205456	1.193910035
GO:0033572	transferrin transport	0.847672349	1.193910225
ENSG00000206215	ENSG00000206215 subnetwork	0.848806784	1.193922118
ENSG00000106028	SSBP1 subnetwork	0.701380719	1.193927993
ENSG00000145220	LYAR subnetwork	0.698941288	1.19393077
MP:0010299	increased mammary gland tumor incidence	0.70212221	1.193933611
ENSG00000146143	ENSG00000146143 subnetwork	0.843857621	1.193934538
MP:0006382	abnormal lung epithelium morphology	0.700554844	1.19393834
GO:0010884	positive regulation of lipid storage	0.844458822	1.193942924
ENSG00000013503	POLR3B subnetwork	0.701928098	1.193943776
ENSG00000115414	FN1 subnetwork	0.701333631	1.193944657
ENSG00000108528	SLC25A11 subnetwork	0.698867084	1.193953299
MP:0005658	increased susceptibility to diet-induced obesity	0.698168752	1.193954191
MP:0001382	abnormal nursing	0.701239879	1.193978694
REACTOME_FGFR2C_LIGAND_BINDING_AND_ACTIVATION		0.843830845	1.193997086
ENSG00000080345	RIF1 subnetwork	0.70185768	1.194000926
ENSG00000172732	MUS81 subnetwork	0.846855593	1.194006004
ENSG00000187079	TEAD1 subnetwork	0.702076606	1.194008097
GO:0035121	tail morphogenesis	0.848783785	1.194008504
GO:0007033	vacuole organization	0.848556012	1.194012179
ENSG00000094916	CBX5 subnetwork	0.701056424	1.194017836
ENSG00000030582	GRN subnetwork	0.84444874	1.194019998
GO:0015682	ferric iron transport	0.847672349	1.194025735
MP:0002766	situs inversus	0.704414826	1.194026753
ENSG00000167986	DDB1 subnetwork	0.704184272	1.194030453
ENSG00000145555	MYO10 subnetwork	0.844599418	1.194030865
ENSG00000134640	MTNR1B subnetwork	0.701517425	1.194032874
ENSG00000006634	DBF4 subnetwork	0.847591155	1.194044509
ENSG00000213463	SYNJ2BP subnetwork	0.84406169	1.19404681
GO:0033692	cellular polysaccharide biosynthetic process	0.698833533	1.194057163
MP:0000774	decreased brain size	0.847306722	1.194057298
ENSG00000136936	XPA subnetwork	0.698769848	1.194068092
ENSG00000136169	SETDB2 subnetwork	0.84379591	1.194069361
ENSG00000106665	CLIP2 subnetwork	0.842434976	1.194070435
GO:0051918	negative regulation of fibrinolysis	0.847534746	1.194072963
GO:0061099	negative regulation of protein tyrosine kinase activity	0.701787069	1.194075445
GO:0042745	circadian sleep/wake cycle	0.848731202	1.19408041
GO:0016627	oxidoreductase activity, acting on the CH-CH group of donor	0.842570725	1.194085603
REACTOME_EXTENSION_OF_TELOMERES		0.70122426	1.194093804
ENSG00000169679	BUB1 subnetwork	0.846811126	1.194097424
ENSG00000174123	TLR10 subnetwork	0.70407482	1.194104073
MP:0002762	ectopic cerebellar granule cells	0.844714007	1.194109084
REACTOME_SIGNAL_AMPLIFICATION		0.843297774	1.194109642
ENSG00000136709	WDR33 subnetwork	0.701719695	1.194115264
MP:0004066	abnormal primitive node morphology	0.698450472	1.194118331

ENSG00000204842	ATXN2 subnetwork	0.702822925	1.194123425
ENSG00000006468	ETV1 subnetwork	0.698570708	1.194124826
ENSG00000116455	WDR77 subnetwork	0.703887287	1.194125793
ENSG00000206509	HLA-F subnetwork	0.844446644	1.194131068
REACTOME_DNA_REPLICATION	REACTOME_DNA_REPLICATION	0.847455766	1.194135295
GO:0015662	ATPase activity, coupled to transmembrane movement c	0.843762859	1.194136792
ENSG00000141556	TBCD subnetwork	0.704173924	1.1941509
ENSG00000013374	NUB1 subnetwork	0.846774499	1.194154964
ENSG00000174197	MGA subnetwork	0.846563752	1.194158675
GO:0006692	prostanoid metabolic process	0.847300511	1.194163198
GO:0048710	regulation of astrocyte differentiation	0.84241759	1.194167153
GO:0031674	I band	0.839626635	1.194173336
GO:0042641	actomyosin	0.7016744	1.194178241
REACTOME_INTERACTIONS_OF_V	REACTOME_INTERACTIONS_OF_VPR_WITH_HOST_CELLI	0.703836072	1.194182825
ENSG00000125998	FAM83C subnetwork	0.843277921	1.194186838
ENSG00000141720	PIP4K2B subnetwork	0.698751678	1.194189425
ENSG00000186852	ENSG00000186852 subnetwork	0.843445526	1.194192827
MP:0001879	abnormal lymphatic vessel morphology	0.847227109	1.194196515
GO:0014855	striated muscle cell proliferation	0.842928626	1.194204026
GO:0048048	embryonic eye morphogenesis	0.843718646	1.194204236
MP:0000938	motor neuron degeneration	0.702783684	1.194209431
GO:0019104	DNA N-glycosylase activity	0.698418869	1.194222274
ENSG00000102678	FGF9 subnetwork	0.844318528	1.19423189
GO:0031234	extrinsic to internal side of plasma membrane	0.844402809	1.19423245
MP:0008572	abnormal Purkinje cell dendrite morphology	0.702988052	1.19423388
GO:0002532	production of molecular mediator involved in inflammat	0.70375654	1.194234099
ENSG00000104725	ENSG00000104725 subnetwork	0.84238684	1.194239564
GO:0045742	positive regulation of epidermal growth factor receptor :	0.84675686	1.194241573
MP:0001751	increased circulating luteinizing hormone level	0.704070512	1.194241865
ENSG00000125676	THOC2 subnetwork	0.846540747	1.194245301
MP:0001303	abnormal lens morphology	0.839775481	1.194261735
GO:0019400	alditol metabolic process	0.847177714	1.194273405
ENSG00000154380	ENAH subnetwork	0.843261847	1.194283492
MP:0005171	absent coat pigmentation	0.844996079	1.194284328
MP:0004190	abnormal direction of embryo turning	0.8436302	1.194285714
MP:0003403	absent placental labyrinth	0.839624028	1.194289898
MP:0001940	testis hypoplasia	0.843697131	1.194295987
ENSG00000100285	NEFH subnetwork	0.842253954	1.194301703
GO:0009147	pyrimidine nucleoside triphosphate metabolic process	0.704629196	1.194304162
GO:0048841	regulation of axon extension involved in axon guidance	0.842907912	1.194315308
REACTOME_SIGNALING_BY_WNT	REACTOME_SIGNALING_BY_WNT	0.841998751	1.194319509
GO:0046579	positive regulation of Ras protein signal transduction	0.839912347	1.194320843
ENSG00000114353	GNAI2 subnetwork	0.703730977	1.194331563
GO:0007176	regulation of epidermal growth factor-activated recepto	0.842369406	1.194341183
GO:0030546	receptor activator activity	0.846512987	1.194341634
MP:0005075	abnormal melanosome morphology	0.703659151	1.194354001
MP:0004084	abnormal cardiac muscle relaxation	0.843114378	1.194355309
GO:0022616	DNA strand elongation	0.842200758	1.194359548
ENSG00000142186	SCYL1 subnetwork	0.846431032	1.19436531
GO:0010171	body morphogenesis	0.843238203	1.194365581
ENSG00000138175	ARL3 subnetwork	0.847162229	1.194374516
GO:0035265	organ growth	0.839583091	1.194386958
ENSG00000162188	GNG3 subnetwork	0.704998158	1.194392577
MP:0000552	abnormal radius morphology	0.842883797	1.194397432

ENSG00000109814	UGDH subnetwork	0.842147376	1.194397936
MP:0003632	abnormal nervous system morphology	0.839505497	1.194401054
ENSG00000002745	WNT16 subnetwork	0.846197445	1.194407289
GO:0007009	plasma membrane organization	0.84638061	1.194413218
MP:0003935	abnormal craniofacial development	0.839368683	1.19441949
GO:0002579	positive regulation of antigen processing and presentation	0.704802718	1.194431635
ENSG00000162231	NXF1 subnetwork	0.70492679	1.194432277
REACTOME_DEGRADATION_OF_E	REACTOME_DEGRADATION_OF_BETA:CATENIN_BY_THE	0.841998751	1.19443579
GO:0000151	ubiquitin ligase complex	0.715622848	1.194444444
ENSG00000130706	ADRM1 subnetwork	0.83945071	1.194463972
MP:0004411	decreased endocochlear potential	0.846322857	1.194465982
GO:0019751	polyol metabolic process	0.70364569	1.194468822
GO:0045671	negative regulation of osteoclast differentiation	0.715826829	1.19449114
ENSG00000100767	PAPLN subnetwork	0.715399583	1.194493692
GO:0000987	core promoter proximal region sequence-specific DNA binding	0.703319918	1.194495148
GO:0031513	nonmotile primary cilium	0.703479408	1.194496419
ENSG00000177479	ARIH2 subnetwork	0.839338948	1.19449707
GO:0003084	positive regulation of systemic arterial blood pressure	0.840112611	1.194516538
ENSG00000153201	RANBP2 subnetwork	0.84619662	1.194523071
GO:0071825	protein-lipid complex subunit organization	0.8376281	1.194527047
ENSG00000100342	APOL1 subnetwork	0.71490769	1.19452974
GO:0046488	phosphatidylinositol metabolic process	0.703599334	1.194537475
MP:0001328	disorganized retinal layers	0.841987018	1.194537488
MP:0010551	abnormal coronary vessel morphology	0.715596822	1.194540393
ENSG00000180596	HIST1H2BC subnetwork	0.712893626	1.194549601
MP:0011084	partial lethality at weaning	0.712992827	1.194567324
GO:0030865	cortical cytoskeleton organization	0.70327186	1.194569613
KEGG_NITROGEN_METABOLISM	KEGG_NITROGEN_METABOLISM	0.715798827	1.194581393
GO:0043392	negative regulation of DNA binding	0.840336856	1.194585894
GO:0016675	oxidoreductase activity, acting on a heme group of donor	0.715287579	1.194594748
GO:0042575	DNA polymerase complex	0.845294046	1.194600233
GO:0003209	cardiac atrium morphogenesis	0.703461484	1.194605522
GO:0016862	intramolecular oxidoreductase activity, interconverting	0.839337198	1.194608849
GO:0017015	regulation of transforming growth factor beta receptor signaling	0.711994415	1.194610642
GO:0071418	cellular response to amine stimulus	0.846176348	1.194614639
REACTOME_HOMOLOGOUS_RECOMBINATION_REPAIR	REACTOME_HOMOLOGOUS_RECOMBINATION_REPAIR	0.845477155	1.194615832
ENSG00000138030	KHK subnetwork	0.840471845	1.194620562
GO:0031576	G2/M transition checkpoint	0.715397881	1.194629461
ENSG00000186895	FGF3 subnetwork	0.71358037	1.194633702
GO:0055065	metal ion homeostasis	0.840721448	1.194636763
GO:0006582	melanin metabolic process	0.839248005	1.194642508
GO:0071827	plasma lipoprotein particle organization	0.8376281	1.194643905
MP:0004398	cochlear inner hair cell degeneration	0.841979212	1.194648943
ENSG00000134250	NOTCH2 subnetwork	0.71367338	1.194651401
GO:0005922	connexon complex	0.71558527	1.194653409
GO:0042632	cholesterol homeostasis	0.714903599	1.194659918
ENSG00000075188	NUP37 subnetwork	0.838392509	1.194662757
GO:0006399	tRNA metabolic process	0.846099737	1.194667442
REACTOME_STABILIZATION_OF_P53	REACTOME_STABILIZATION_OF_P53	0.840319494	1.194668293
GO:0032233	positive regulation of actin filament bundle assembly	0.71377619	1.194669097
MP:0000961	abnormal dorsal root ganglion morphology	0.715242927	1.194673715
ENSG00000197846	HIST1H2BF subnetwork	0.712893626	1.194685825
GO:0048469	cell maturation	0.83820497	1.194700303
GO:0007044	cell-substrate junction assembly	0.713461261	1.194700855

MP:0010107	abnormal renal reabsorption	0.845657406	1.194703657
ENSG00000077380	DYNC1I2 subnetwork	0.711881012	1.194712197
GO:0031572	G2/M transition DNA damage checkpoint	0.837166145	1.194714691
GO:0019212	phosphatase inhibitor activity	0.70525273	1.194715916
GO:0048200	Golgi transport vesicle coating	0.839231054	1.194725017
MP:0005353	abnormal patella morphology	0.83761032	1.194726543
MP:0001765	abnormal ion homeostasis	0.836993011	1.194728341
ENSG00000134376	CRB1 subnetwork	0.838366782	1.194730668
REACTOME_HOMOLOGOUS_RECOMBINATION_REPAIR	REACTOME_HOMOLOGOUS_RECOMBINATION_REPAIR	0.845477155	1.194731736
GO:0006096	glycolysis	0.841942257	1.194736073
ENSG00000147133	TAF1 subnetwork	0.714641042	1.194737142
GO:0004864	protein phosphatase inhibitor activity	0.837069877	1.194738645
ENSG00000105664	COMP subnetwork	0.838625943	1.194741472
GO:0042744	hydrogen peroxide catabolic process	0.840715339	1.194743515
ENSG00000154134	ROBO3 subnetwork	0.711994352	1.194747059
GO:0007585	respiratory gaseous exchange	0.837425886	1.194749976
GO:0006458	'de novo' protein folding	0.711742152	1.194756683
MP:0006029	abnormal sclerotomy morphology	0.841078101	1.194760187
REACTOME_RESOLUTION_OF_AP_SITES_VIA_THE_SINGUL	REACTOME_RESOLUTION_OF_AP_SITES_VIA_THE_SINGUL	0.841180135	1.194760698
ENSG00000166136	NDUFB8 subnetwork	0.713923394	1.19476082
GO:0006644	phospholipid metabolic process	0.838055825	1.194767726
ENSG00000091409	ITGA6 subnetwork	0.713576287	1.194769827
ENSG00000196470	SLAH1 subnetwork	0.84592134	1.194772573
ENSG00000183336	BOLA2 subnetwork	0.714576963	1.194776374
GO:0030031	cell projection assembly	0.846091533	1.194783283
GO:0032933	SREBP-mediated signaling pathway	0.715238152	1.194792496
GO:0006833	water transport	0.838336912	1.194793704
GO:0055092	sterol homeostasis	0.714903599	1.194795814
GO:0005732	small nucleolar ribonucleoprotein complex	0.836969034	1.194796358
REACTOME_SPHINGOLIPID_METABOLISM	REACTOME_SPHINGOLIPID_METABOLISM	0.840664822	1.194796645
MP:0008525	decreased cranium height	0.711836773	1.194797259
MP:0000745	tremors	0.713238436	1.194807342
ENSG00000099381	SETD1A subnetwork	0.837379585	1.194813075
REACTOME_UNBLOCKING_OF_NMDA_RECEPTOR_GLUT	REACTOME_UNBLOCKING_OF_NMDA_RECEPTOR_GLUT	0.838203663	1.194817133
GO:0009408	response to heat	0.838007864	1.194821009
ENSG00000032514	ENSG00000032514 subnetwork	0.841547764	1.194821202
ENSG00000168242	HIST1H2BI subnetwork	0.712893626	1.19482208
GO:0009581	detection of external stimulus	0.845859568	1.194825412
ENSG00000044446	PHKA2 subnetwork	0.837598042	1.194828767
ENSG00000123349	PFDN5 subnetwork	0.714833677	1.194829352
GO:0048384	retinoic acid receptor signaling pathway	0.836926572	1.194830118
GO:0035295	tube development	0.707677873	1.194831151
GO:0001191	RNA polymerase II transcription factor binding transcript	0.713455928	1.19483132
GO:0000777	condensed chromosome kinetochore	0.841660723	1.19483145
ENSG00000163032	VSNL1 subnetwork	0.714450216	1.194837792
GO:0035964	COPI-coated vesicle budding	0.839231054	1.194841735
GO:0090181	regulation of cholesterol metabolic process	0.841849036	1.194842198
GO:0003684	damaged DNA binding	0.841922336	1.1948427
GO:0019395	fatty acid oxidation	0.839060763	1.194850498
GO:0050660	flavin adenine dinucleotide binding	0.846077761	1.194860357
GO:0033124	regulation of GTP catabolic process	0.717664788	1.194866274
ENSG00000058600	POLR3E subnetwork	0.71410945	1.194875299
MP:0011083	complete lethality at weaning	0.841074971	1.19487667
ENSG00000166233	ARIH1 subnetwork	0.716063503	1.19487791

GO:0030279	negative regulation of ossification	0.714758794	1.194885653
GO:0090003	regulation of establishment of protein localization in pla	0.705637663	1.194891142
ENSG00000105663	ENSG00000105663 subnetwork	0.711740392	1.194893179
KEGG_BASAL_TRANSCRIPTION_F/KEGG_BASAL_TRANSCRIPTION_FACTORS		0.838899798	1.194893471
ENSG00000126432	PRDX5 subnetwork	0.714233024	1.19490435
GO:0008378	galactosyltransferase activity	0.841799534	1.194909888
ENSG00000169627	BOLA2B subnetwork	0.714576963	1.194912361
GO:0051905	establishment of pigment granule localization	0.836893284	1.194912848
GO:0002064	epithelial cell development	0.84151035	1.194913272
GO:0009749	response to glucose stimulus	0.839015765	1.194918401
MP:0005221	abnormal rostral-caudal axis patterning	0.70551348	1.194918769
MP:0004231	abnormal calcium ion homeostasis	0.841358613	1.194922027
ENSG00000128408	RIBC2 subnetwork	0.715233474	1.194922675
GO:0072224	metanephric glomerulus development	0.705579107	1.194930876
MP:0001906	increased dopamine level	0.836837915	1.194936833
MP:0000914	exencephaly	0.714426411	1.194939663
ENSG00000145494	NDUFS6 subnetwork	0.707648643	1.19493969
MP:0000078	abnormal supraoccipital bone morphology	0.84104861	1.194944423
ENSG00000187990	HIST1H2BG subnetwork	0.712893626	1.194958367
GO:0048205	COPI coating of Golgi vesicle	0.839231054	1.194958476
GO:0001106	RNA polymerase II transcription corepressor activity	0.713455928	1.194967514
GO:0031645	negative regulation of neurological system process	0.712332508	1.194982877
ENSG00000059769	DNAJC25 subnetwork	0.836703047	1.194984817
ENSG00000131981	LGALS3 subnetwork	0.836803927	1.194985309
GO:0030239	myofibril assembly	0.833588192	1.194985744
ENSG00000137218	FRS3 subnetwork	0.717643286	1.194990366
MP:0003845	abnormal decidualization	0.717964767	1.194992636
MP:0003674	oxidative stress	0.708019425	1.194998852
GO:0001653	peptide receptor activity	0.83619822	1.19500098
GO:0051271	negative regulation of cellular component movement	0.711733009	1.195001143
ENSG00000112038	OPRM1 subnetwork	0.841487603	1.19500536
GO:0055074	calcium ion homeostasis	0.712271587	1.195027971
GO:0015145	monosaccharide transmembrane transporter activity	0.836654164	1.195028409
GO:0045932	negative regulation of muscle contraction	0.836049398	1.195029412
GO:0060419	heart growth	0.705499688	1.195033418
MP:0004813	absent linear vestibular evoked potential	0.833801746	1.195040794
ENSG00000173418	NAA20 subnetwork	0.714402037	1.195041558
ENSG00000111875	ASF1A subnetwork	0.836153266	1.195044603
ENSG00000087086	FTL subnetwork	0.83283816	1.195055107
ENSG00000129682	FGF13 subnetwork	0.832485523	1.195057596
GO:0008238	exopeptidase activity	0.716296423	1.195060747
GO:0004653	polypeptide N-acetylgalactosaminyltransferase activity	0.707645501	1.195071232
GO:0019205	nucleobase-containing compound kinase activity	0.712862101	1.195071869
ENSG00000151208	DLG5 subnetwork	0.832541534	1.195077771
ENSG00000155329	ZCCHC10 subnetwork	0.833434499	1.195078179
ENSG00000116584	ARHGEF2 subnetwork	0.716233041	1.195082898
GO:0000725	recombinational repair	0.707967508	1.195084415
ENSG00000129084	PSMA1 subnetwork	0.832948	1.195085113
GO:0008016	regulation of heart contraction	0.805559293	1.195089875
MP:0000547	short limbs	0.717538232	1.195091259
ENSG00000170579	DLGAP1 subnetwork	0.711694068	1.195091989
ENSG00000113810	SMC4 subnetwork	0.706932262	1.195094882
GO:0060706	cell differentiation involved in embryonic placenta devel	0.833365907	1.195097364
ENSG00000111880	RNGTT subnetwork	0.833579398	1.195098328

MP:0005405	axon degeneration	0.833768528	1.195099292
ENSG00000164329	PAPD4 subnetwork	0.717946689	1.195099705
ENSG00000215639	ENSG00000215639 subnetwork	0.717631977	1.195114487
ENSG00000106399	RPA3 subnetwork	0.833326818	1.195116554
GO:0006312	mitotic recombination	0.804248677	1.195117982
ENSG00000164975	SNAPC3 subnetwork	0.805513501	1.195124924
GO:0016655	oxidoreductase activity, acting on NADH or NADPH, quin	0.836644926	1.195125894
GO:0071347	cellular response to interleukin-1	0.83602979	1.195126973
ENSG00000092010	PSME1 subnetwork	0.833061392	1.19512987
ENSG00000129965	INS-IGF2 subnetwork	0.71787421	1.195133144
ENSG00000198018	ENTPD7 subnetwork	0.832471945	1.195155573
MP:0002773	decreased circulating luteinizing hormone level	0.71283446	1.195156874
GO:0008206	bile acid metabolic process	0.832752901	1.19515748
GO:0030547	receptor inhibitor activity	0.711648584	1.19516
GO:0031575	mitotic cell cycle G1/S transition checkpoint	0.832680684	1.195161925
GO:0015108	chloride transmembrane transporter activity	0.832821805	1.195162878
ENSG00000076053	RBM7 subnetwork	0.706671634	1.195167415
GO:0032446	protein modification by small protein conjugation	0.707620971	1.195168333
ENSG00000169020	ATP5I subnetwork	0.835791505	1.195174578
ENSG00000000419	DPM1 subnetwork	0.833281171	1.195180012
GO:0009060	aerobic respiration	0.836386857	1.195182789
GO:0030903	notochord development	0.835877822	1.195184858
REACTOME_PROCESSING_OF_CAI	REACTOME_PROCESSING_OF_CAPPED_INTRONLESS_PRI	0.805476273	1.195190452
MP:0000377	abnormal hair follicle morphology	0.706915177	1.195192086
ENSG00000138675	FGF5 subnetwork	0.709250333	1.195195505
GO:0005912	adherens junction	0.717085587	1.195195689
ENSG00000138663	COPS4 subnetwork	0.717512262	1.195198413
ENSG00000112049	ENSG00000112049 subnetwork	0.804229444	1.195209033
MP:0005558	decreased creatinine clearance	0.706786387	1.19521399
ENSG00000140481	CCDC33 subnetwork	0.805698876	1.195217303
GO:0009219	pyrimidine deoxyribonucleotide metabolic process	0.836628636	1.195218499
ENSG00000095380	NANS subnetwork	0.711349604	1.195220126
MP:0002798	abnormal active avoidance behavior	0.70901906	1.195228263
GO:0043178	alcohol binding	0.707575816	1.195230981
GO:0071715	icosanoid transport	0.707087087	1.195233441
MP:0002804	abnormal motor learning	0.83323813	1.195233645
ENSG00000012061	ERCC1 subnetwork	0.832439926	1.195243722
GO:0072012	glomerulus vasculature development	0.836025425	1.195244166
GO:0061138	morphogenesis of a branching epithelium	0.706875743	1.195254803
GO:0034284	response to monosaccharide stimulus	0.836486611	1.195256762
GO:0043270	positive regulation of ion transport	0.71744826	1.195260234
GO:0009635	response to herbicide	0.804643466	1.19526182
GO:0019239	deaminase activity	0.716793223	1.19526728
REACTOME_SYNTHESIS_SECRETIC	REACTOME_SYNTHESIS_SECRETION_AND_INACTIVATIO	0.804186562	1.195269583
GO:0032376	positive regulation of cholesterol transport	0.706651739	1.195270426
ENSG00000162517	PEF1 subnetwork	0.804470079	1.195271026
ENSG00000122218	COPA subnetwork	0.711212825	1.195276221
ENSG00000108294	PSMB3 subnetwork	0.804557926	1.195276591
ENSG00000091106	NLRC4 subnetwork	0.836576871	1.195276825
GO:0032592	integral to mitochondrial membrane	0.707530332	1.195282151
GO:0007588	excretion	0.708498606	1.195282369
ENSG00000211592	ENSG00000211592 subnetwork	0.716717941	1.195283768
GO:0018200	peptidyl-glutamic acid modification	0.83239425	1.195287571
ENSG00000165659	DACH1 subnetwork	0.711301759	1.195288198

GO:0044460	flagellum part	0.835790942	1.19529181
GO:0070161	anchoring junction	0.712833411	1.195293245
GO:0042254	ribosome biogenesis	0.718556378	1.195295516
GO:0048019	receptor antagonist activity	0.711648584	1.195296605
ENSG00000102144	PGK1 subnetwork	0.709235478	1.195298165
GO:0000413	protein peptidyl-prolyl isomerization	0.71154369	1.195301246
ENSG00000158161	EYA3 subnetwork	0.709161182	1.195309095
REACTOME_POST:ELONGATION_I	REACTOME_POST:ELONGATION_PROCESSING_OF_INTR	0.805476273	1.195311865
MP:0009413	skeletal muscle fiber atrophy	0.717071574	1.195319946
MP:0004363	stria vascularis degeneration	0.717419162	1.195327739
MP:0001282	short vibrissae	0.804156546	1.195330145
ENSG00000103502	CDIPT subnetwork	0.706261447	1.195331031
GO:0005496	steroid binding	0.706079817	1.195335713
ENSG00000103351	CLUAP1 subnetwork	0.83451346	1.195338442
GO:0034104	negative regulation of tissue remodeling	0.835409121	1.195338567
GO:0048678	response to axon injury	0.835674258	1.19534975
GO:0000122	negative regulation of transcription from RNA polymerase	0.712772509	1.195349766
GO:0030983	mismatched DNA binding	0.709013566	1.195353906
GO:0032839	dendrite cytoplasm	0.830512898	1.195356297
ENSG00000130307	USHBP1 subnetwork	0.805439936	1.195357107
ENSG00000111450	STX2 subnetwork	0.806311662	1.195357215
GO:0000082	G1/S transition of mitotic cell cycle	0.711618599	1.195358939
GO:0010269	response to selenium ion	0.71258946	1.195365826
GO:0007229	integrin-mediated signaling pathway	0.717372314	1.195372576
REACTOME_PKA:MEDIATED_PHO	REACTOME_PKA:MEDIATED_PHOSPHORYLATION_OF_Cf	0.718525083	1.19537425
MP:0000084	abnormal fontanelle morphology	0.708477018	1.195379405
MP:0004014	abnormal uterine environment	0.832375187	1.1953856
GO:0050930	induction of positive chemotaxis	0.711205143	1.19539579
REACTOME_LAGGING_STRAND_S	REACTOME_LAGGING_STRAND_SYNTHESIS	0.716632843	1.195396231
GO:0051324	prophase	0.707514714	1.195396552
MP:0002111	abnormal tail morphology	0.716704756	1.195402429
MP:0000229	abnormal megakaryocyte differentiation	0.706212742	1.195405343
GO:0032373	positive regulation of sterol transport	0.706651739	1.195407987
GO:0044442	microtubule-based flagellum part	0.835790942	1.195409064
GO:0006900	membrane budding	0.805391389	1.195412518
ENSG00000102312	PORCN subnetwork	0.709567472	1.195420154
ENSG00000141622	RNF165 subnetwork	0.716953709	1.195421017
ENSG00000143226	FCGR2A subnetwork	0.718668243	1.195426242
ENSG00000164105	SAP30 subnetwork	0.834488875	1.19542641
GO:0016874	ligase activity	0.712743227	1.195429126
GO:0048729	tissue morphogenesis	0.830400976	1.195429418
GO:0035411	catenin import into nucleus	0.830484636	1.195429869
MP:0000062	increased bone mineral density	0.711542428	1.195437914
REACTOME_S_PHASE	REACTOME_S_PHASE	0.83115438	1.195438406
GO:0055017	cardiac muscle tissue growth	0.717055028	1.195438557
ENSG00000138674	SEC31A subnetwork	0.831413042	1.195444236
MP:0000690	absent spleen	0.804148684	1.195446683
ENSG00000198807	PAX9 subnetwork	0.834174539	1.195449184
ENSG00000116641	DOCK7 subnetwork	0.717334313	1.195451452
GO:0035254	glutamate receptor binding	0.835642206	1.195452316
ENSG00000163541	SUCLG1 subnetwork	0.80618627	1.1954527
GO:0045833	negative regulation of lipid metabolic process	0.832336761	1.195454098
ENSG00000065154	OAT subnetwork	0.835406964	1.195455884
GO:0016226	iron-sulfur cluster assembly	0.831733774	1.19545589

ENSG00000147050	KDM6A subnetwork	0.711158758	1.195458186
GO:0000779	condensed chromosome, centromeric region	0.832257311	1.195458576
GO:0043277	apoptotic cell clearance	0.831322408	1.195468442
MP:0009767	decreased sensitivity to xenobiotic induced morbidity/m	0.834268066	1.195469287
GO:0080111	DNA demethylation	0.718490948	1.195469989
MP:0003331	hepatocellular carcinoma	0.70607696	1.195473393
GO:0008376	acetylgalactosaminyltransferase activity	0.830363635	1.195473393
ENSG00000197275	RAD54B subnetwork	0.804110336	1.195476748
GO:0030291	protein serine/threonine kinase inhibitor activity	0.806308998	1.195478534
REACTOME_GAP:FILLING_DNA_R	REACTOME_GAP:FILLING_DNA_REPAIR_SYNTHESIS_ANE	0.834458992	1.195480004
ENSG00000111581	NUP107 subnetwork	0.804892001	1.195480887
ENSG00000108797	CNTNAP1 subnetwork	0.830290629	1.19548282
ENSG00000092330	TINF2 subnetwork	0.709002435	1.195485314
REACTOME_TRANSCRIPTION	REACTOME_TRANSCRIPTION	0.831131011	1.195487276
ENSG00000121653	MAPK8IP1 subnetwork	0.708354507	1.195487427
ENSG00000124356	STAMBP subnetwork	0.832179179	1.195487685
GO:0010594	regulation of endothelial cell migration	0.707486714	1.195487987
MP:0004263	abnormal limb posture	0.832106546	1.195492167
GO:0051603	proteolysis involved in cellular protein catabolic process	0.707396525	1.195493217
GO:0010226	response to lithium ion	0.708710635	1.195495237
ENSG00000128654	MTX2 subnetwork	0.831028563	1.195496695
ENSG00000164403	SHROOM1 subnetwork	0.835235759	1.195499166
GO:0032201	telomere maintenance via semi-conservative replication	0.831598681	1.195504289
GO:0005487	nucleocytoplasmic transporter activity	0.708465947	1.195505166
GO:0002446	neutrophil mediated immunity	0.834709573	1.195505894
GO:0051453	regulation of intracellular pH	0.830951114	1.195506117
ENSG00000162688	AGL subnetwork	0.718430305	1.195509118
ENSG00000127920	GNG11 subnetwork	0.709543159	1.195511351
ENSG00000100596	SPTLC2 subnetwork	0.803915357	1.195516083
GO:0045737	positive regulation of cyclin-dependent protein kinase ac	0.708942193	1.19551922
GO:0033205	cell cycle cytokinesis	0.835355629	1.195524146
MP:0002082	postnatal lethality	0.835622364	1.19553037
REACTOME_SWITCHING_OF_ORI	REACTOME_SWITCHING_OF_ORIGINS_TO_A_POST:REPL	0.804037434	1.195532261
MP:0004221	abnormal iridocorneal angle	0.80538914	1.19553399
ENSG00000110955	ATP5B subnetwork	0.708848387	1.195535919
GO:0000271	polysaccharide biosynthetic process	0.706649373	1.195539825
REACTOME_FGFR3_LIGAND_BINC	REACTOME_FGFR3_LIGAND_BINDING_AND_ACTIVATIO	0.806170477	1.195548675
ENSG00000158864	NDUFS2 subnetwork	0.831900697	1.195559827
ENSG00000125870	SNRNP2 subnetwork	0.718402584	1.195570911
ENSG00000076003	MCM6 subnetwork	0.83515512	1.195571919
GO:0031163	metallo-sulfur cluster assembly	0.831733774	1.195573738
GO:0060612	adipose tissue development	0.711135583	1.195577803
ENSG00000171747	LGALS4 subnetwork	0.707363979	1.195578935
ENSG00000164418	GRIK2 subnetwork	0.830912897	1.195584608
ENSG00000115310	RTN4 subnetwork	0.83201984	1.195584902
MP:0005215	abnormal pancreatic islet morphology	0.832087741	1.195590264
REACTOME_GAP:FILLING_DNA_R	REACTOME_GAP:FILLING_DNA_REPAIR_SYNTHESIS_ANE	0.834458992	1.195597484
MP:0002801	abnormal long term object recognition memory	0.709773413	1.195598349
GO:0008528	G-protein coupled peptide receptor activity	0.830289974	1.195600869
ENSG00000128709	HOXD9 subnetwork	0.831572077	1.195602445
GO:0042554	superoxide anion generation	0.835223878	1.195611624
GO:0034285	response to disaccharide stimulus	0.706607307	1.195625648
ENSG00000147509	RGS20 subnetwork	0.803895686	1.195627609
ENSG00000173660	UQCRH subnetwork	0.835115214	1.195630401

GO:0070003	threonine-type peptidase activity	0.803641204	1.195631365
ENSG00000172638	EFEMP2 subnetwork	0.830242291	1.195644875
REACTOME_ORC1_REMOVAL_FROM_CHROMATIN	REACTOME_ORC1_REMOVAL_FROM_CHROMATIN	0.804037434	1.195653944
ENSG00000090372	STRN4 subnetwork	0.830146074	1.195654321
ENSG00000089597	GANAB subnetwork	0.805374159	1.195655488
GO:0050679	positive regulation of epithelial cell proliferation	0.803519154	1.195661031
GO:0006901	vesicle coating	0.83490431	1.195663491
ENSG00000212915	ENSG00000212915 subnetwork	0.803857783	1.195667888
REACTOME_FGFR3C_LIGAND_BINDING_AND_ACTIVATION	REACTOME_FGFR3C_LIGAND_BINDING_AND_ACTIVATION	0.806170477	1.195670051
GO:0033687	osteoblast proliferation	0.803448924	1.195670775
MP:0002626	increased heart rate	0.709927758	1.195673848
GO:0051496	positive regulation of stress fiber assembly	0.805111059	1.19568466
ENSG00000171314	PGAM1 subnetwork	0.711126333	1.195686005
GO:0034470	ncRNA processing	0.805222316	1.195695263
GO:0010830	regulation of myotube differentiation	0.830908332	1.195702585
ENSG00000196730	DAPK1 subnetwork	0.709880699	1.195707736
GO:0034661	ncRNA catabolic process	0.803783477	1.195708176
ENSG00000164733	CTSB subnetwork	0.829965833	1.195717673
ENSG00000136044	APPL2 subnetwork	0.806130855	1.195725454
GO:0048566	embryonic digestive tract development	0.829867897	1.195737008
ENSG00000057294	PKP2 subnetwork	0.711059757	1.195742733
ENSG00000152256	PDK1 subnetwork	0.835113691	1.195747815
GO:0048066	developmental pigmentation	0.83086574	1.195751505
ENSG00000197818	SLC9A8 subnetwork	0.830127522	1.195752667
GO:0004298	threonine-type endopeptidase activity	0.803641204	1.195753132
GO:0006364	rRNA processing	0.805359025	1.195761764
REACTOME_ADP_SIGNALLING_THROUGH_P2Y_PURINOCYTES	REACTOME_ADP_SIGNALLING_THROUGH_P2Y_PURINOCYTES	0.720283899	1.195762233
GO:0009744	response to sucrose stimulus	0.706607307	1.195763297
GO:0008013	beta-catenin binding	0.710860738	1.195764652
GO:0015721	bile acid and bile salt transport	0.803436154	1.195767115
GO:0030301	cholesterol transport	0.807463653	1.195767437
ENSG00000164695	CHMP4C subnetwork	0.720488875	1.195785787
GO:0070306	lens fiber cell differentiation	0.710087316	1.195788931
GO:0030501	positive regulation of bone mineralization	0.829700143	1.195805336
ENSG00000141252	VPS53 subnetwork	0.829844836	1.195825511
MP:0004321	short sternum	0.807422536	1.195832911
KEGG_ECM_RECEPTOR_INTERACTION	KEGG_ECM_RECEPTOR_INTERACTION	0.8075974	1.195833756
GO:0051248	negative regulation of protein metabolic process	0.711039641	1.19583381
GO:0001774	microglial cell activation	0.829646618	1.19583951
ENSG00000184895	SRY subnetwork	0.835101718	1.195840699
ENSG00000132693	CRP subnetwork	0.803385705	1.195843097
ENSG00000117707	PROX1 subnetwork	0.719870328	1.19584464
ENSG00000131475	VPS25 subnetwork	0.806892378	1.195850244
GO:0030336	negative regulation of cell migration	0.807352284	1.195852768
MP:0011107	partial embryonic lethality before turning of embryo	0.710266909	1.195852904
ENSG00000148308	GTF3C5 subnetwork	0.720444911	1.195858757
GO:0034364	high-density lipoprotein particle	0.719015119	1.195862576
MP:0009431	decreased fetal weight	0.719802618	1.195872441
GO:0006403	RNA localization	0.710836714	1.195878649
GO:0033137	negative regulation of peptidyl-serine phosphorylation	0.806989546	1.195886172
GO:0008542	visual learning	0.720273773	1.195891727
GO:0007264	small GTPase mediated signal transduction	0.720065927	1.19589645
ENSG00000198780	FAM169A subnetwork	0.719995519	1.195907292
ENSG00000132773	TOE1 subnetwork	0.710590265	1.195928768

GO:0019861	flagellum	0.71924133	1.195931417
MP:0009549	decreased platelet aggregation	0.829613383	1.195932991
GO:0032924	activin receptor signaling pathway	0.803366958	1.195934379
KEGG_VALINE_LEUCINE_AND_ISC	KEGG_VALINE_LEUCINE_AND_ISOLEUCINE_DEGRADATION	0.806877768	1.195941147
GO:0071230	cellular response to amino acid stimulus	0.710790969	1.195952599
GO:0009991	response to extracellular stimulus	0.807340901	1.195958828
GO:0031032	actomyosin structure organization	0.828995227	1.195959446
GO:0030246	carbohydrate binding	0.827157382	1.195971259
GO:0035601	protein deacylation	0.710261449	1.19597846
GO:0030262	apoptotic nuclear change	0.829336023	1.195980819
MP:0001560	abnormal circulating insulin level	0.827611515	1.195982762
KEGG_SPHINGOLIPID_METABOLISM	KEGG_SPHINGOLIPID_METABOLISM	0.812806056	1.195984482
ENSG00000131910	NR0B2 subnetwork	0.829254632	1.195995254
GO:0071824	protein-DNA complex subunit organization	0.803318149	1.196000204
MP:0001700	abnormal embryo turning	0.710430634	1.196002291
GO:0050321	tau-protein kinase activity	0.721364912	1.196004064
ENSG00000143627	PKLR subnetwork	0.72024274	1.196004295
ENSG00000171560	FGA subnetwork	0.71979277	1.196007691
GO:0002244	hemopoietic progenitor cell differentiation	0.82920162	1.196009691
GO:0008417	fucosyltransferase activity	0.827332613	1.196011297
MP:0003743	abnormal facial morphology	0.71946929	1.196011541
GO:0051298	centrosome duplication	0.720691042	1.196012201
GO:0008483	transaminase activity	0.829599657	1.196016606
MP:0005591	decreased vasodilation	0.710561496	1.196025656
ENSG00000107554	DNMBP subnetwork	0.828965887	1.196028292
MP:0001340	abnormal eyelid morphology	0.721276687	1.196031836
MP:0001730	embryonic growth arrest	0.719221785	1.196032824
GO:0008637	apoptotic mitochondrial changes	0.827465117	1.196036465
ENSG00000120071	KIAA1267 subnetwork	0.710759618	1.196038017
MP:0001921	reduced fertility	0.828885534	1.196042738
ENSG00000119969	HELLS subnetwork	0.807334771	1.196054767
ENSG00000185973	TMLHE subnetwork	0.801076276	1.19605559
GO:0015986	ATP synthesis coupled proton transport	0.803277398	1.19605585
REACTOME_E2F:ENABLED_INHIBITION_OF_PRE:REPLICATION	REACTOME_E2F:ENABLED_INHIBITION_OF_PRE:REPLICATION	0.827131208	1.196060065
ENSG00000159063	ALG8 subnetwork	0.719644631	1.196063348
ENSG00000104368	PLAT subnetwork	0.829157459	1.196068638
REACTOME_DESTABILIZATION_OF_MRNA_BY_KSRP	REACTOME_DESTABILIZATION_OF_MRNA_BY_KSRP	0.71974606	1.196069449
GO:0045851	pH reduction	0.828509475	1.196070474
GO:0055088	lipid homeostasis	0.719412376	1.196073328
ENSG00000130203	APOE subnetwork	0.812784129	1.196074776
MP:0002188	small heart	0.812951875	1.196075567
MP:0000445	short snout	0.813037316	1.196075962
MP:0002730	head shaking	0.827608685	1.196076489
ENSG00000162961	DPY30 subnetwork	0.72148665	1.196077878
ENSG00000121741	ZMYM2 subnetwork	0.719572136	1.196079873
GO:0008023	transcription elongation factor complex	0.721060977	1.196086957
ENSG000000009830	POMT2 subnetwork	0.828147123	1.196098624
ENSG000000091140	DLD subnetwork	0.812696526	1.196109655
ENSG00000142655	PEX14 subnetwork	0.829590084	1.196110123
GO:0010669	epithelial structure maintenance	0.828870609	1.196116553
GO:0048471	perinuclear region of cytoplasm	0.720983612	1.196126045
MP:0003858	enhanced coordination	0.826878313	1.196127913
ENSG00000175634	RPS6KB2 subnetwork	0.827096229	1.196129064
MP:0003290	intestinal hypoperistalsis	0.803179069	1.196131498

GO:0032608	interferon-beta production	0.828456981	1.196134429
GO:0051851	modification by host of symbiont morphology or physiology	0.721184476	1.196138211
MP:0002647	decreased intestinal cholesterol absorption	0.812557603	1.196144153
GO:0042594	response to starvation	0.807320991	1.196155797
ENSG00000111711	GOLT1B subnetwork	0.72093093	1.196159494
MP:0004351	short humerus	0.828726999	1.196160317
MP:0008221	abnormal hippocampal commissure morphology	0.721276354	1.196161228
MP:0009254	disorganized pancreatic islets	0.82811016	1.196167558
MP:0002187	abnormal fibula morphology	0.828822552	1.196175539
GO:0015985	energy coupled proton transport, down electrochemical gradient	0.803277398	1.19617776
ENSG00000165702	GFI1B subnetwork	0.80107532	1.196177823
GO:0032269	negative regulation of cellular protein metabolic process	0.829506577	1.196178942
MP:0004763	absent brainstem auditory evoked potential	0.812485781	1.196189132
MP:0000164	abnormal cartilage development	0.802671492	1.19619543
MP:0008034	enhanced lipolysis	0.827841672	1.196196137
GO:0000083	regulation of transcription involved in G1/S phase of mitosis	0.813258532	1.19619724
MP:0004214	abnormal long bone diaphysis morphology	0.826851271	1.196206862
ENSG00000116213	WRAP73 subnetwork	0.812681491	1.196210059
MP:0002176	increased brain weight	0.807269526	1.196221343
REACTOME_PROTEOLYTIC_CLEAVAGE_OF_SNARE_COMPLEX	REACTOME_PROTEOLYTIC_CLEAVAGE_OF_SNARE_COMPLEX	0.82868635	1.196224268
GO:0016254	preassembly of GPI anchor in ER membrane	0.809735882	1.196227369
REACTOME_M_PHASE	REACTOME_M_PHASE	0.826567321	1.196230533
ENSG00000044524	EPHA3 subnetwork	0.827088625	1.196232775
GO:0030730	sequestering of triglyceride	0.803151598	1.196233051
ENSG00000003436	TFPI subnetwork	0.812418276	1.196249244
GO:0006875	cellular metal ion homeostasis	0.828456739	1.196252846
ENSG000000025796	SEC63 subnetwork	0.813382002	1.196253022
ENSG00000105700	KXD1 subnetwork	0.826511467	1.19625496
GO:0001659	temperature homeostasis	0.809813616	1.196258091
MP:0002813	microcytosis	0.813485066	1.196268506
GO:0006120	mitochondrial electron transport, NADH to ubiquinone	0.827052718	1.19627206
GO:0040014	regulation of multicellular organism growth	0.828108613	1.196281074
GO:0001836	release of cytochrome c from mitochondria	0.828395664	1.196292079
MP:0000877	abnormal Purkinje cell morphology	0.802802778	1.196292708
ENSG00000161681	SHANK1 subnetwork	0.803087481	1.196293842
GO:0005788	endoplasmic reticulum lumen	0.801070768	1.196300082
ENSG00000197263	OR8D2 subnetwork	0.80266359	1.196307253
ENSG00000134909	ARHGAP32 subnetwork	0.826762856	1.196310256
GO:0006004	fucose metabolic process	0.826834269	1.196315581
MP:0001157	small seminal vesicle	0.809613468	1.196322711
ENSG00000175582	RAB6A subnetwork	0.809719442	1.196328141
GO:0005104	fibroblast growth factor receptor binding	0.826483832	1.196333962
ENSG00000171700	RGS19 subnetwork	0.801576968	1.196343207
GO:0051650	establishment of vesicle localization	0.811362576	1.196355008
ENSG00000196586	MYO6 subnetwork	0.80167807	1.196358901
GO:0080135	regulation of cellular response to stress	0.828076054	1.196359945
ENSG00000148965	SAA4 subnetwork	0.81241403	1.196364828
GO:0009629	response to gravity	0.826322996	1.19637789
MP:0008026	abnormal brain white matter morphology	0.809543461	1.196377985
ENSG00000177963	RIC8A subnetwork	0.801039501	1.196381478
KEGG_GLYCEROLIPID_METABOLISM	KEGG_GLYCEROLIPID_METABOLISM	0.810940309	1.196383838
GO:0031638	zymogen activation	0.813665002	1.196389728
GO:0019882	antigen processing and presentation	0.809177797	1.196396761
GO:0030018	Z disc	0.808907486	1.196400365

ENSG00000180818	HOXC10 subnetwork	0.802641198	1.196403795
GO:0016628	oxidoreductase activity, acting on the CH-CH group of do	0.80300579	1.196405262
ENSG00000136813	KIAA0368 subnetwork	0.80308059	1.196405629
GO:0072075	metanephric mesenchyme development	0.810789777	1.196408365
MP:0001199	thin skin	0.802576787	1.19640853
GO:0008173	RNA methyltransferase activity	0.811184627	1.196414866
ENSG00000067057	PFKP subnetwork	0.81235524	1.196414885
GO:0035102	PRC1 complex	0.826466963	1.19641794
GO:0002009	morphogenesis of an epithelium	0.826280146	1.196432116
MP:0004948	abnormal neuronal precursor proliferation	0.801564052	1.196434774
GO:0007369	gastrulation	0.809139152	1.196441948
MP:0009674	decreased birth weight	0.801998618	1.196457014
REACTOME_NEGATIVE_REGULATI	REACTOME_NEGATIVE_REGULATION_OF_FGFR_SIGNAL	0.802362297	1.196458461
MP:0004434	abnormal cochlear outer hair cell physiology	0.801925052	1.196461758
GO:0007005	mitochondrion organization	0.810910712	1.196464289
GO:0045295	gamma-catenin binding	0.811346745	1.196465717
GO:0006904	vesicle docking involved in exocytosis	0.811115045	1.196470054
GO:0015918	sterol transport	0.811511614	1.196471479
GO:0015299	solute:hydrogen antiporter activity	0.80208509	1.19647269
GO:0030032	lamellipodium assembly	0.801013674	1.196473114
GO:0001919	regulation of receptor recycling	0.802545115	1.196479592
MP:0006108	abnormal hindbrain development	0.810577219	1.196483072
ENSG00000139637	C12orf10 subnetwork	0.809539756	1.19648892
GO:0009746	response to hexose stimulus	0.826229429	1.196491315
ENSG00000136160	EDNRB subnetwork	0.800966421	1.196493201
ENSG00000111667	USP5 subnetwork	0.81232923	1.196495209
GO:0005771	multivesicular body	0.808879075	1.196506329
GO:0043114	regulation of vascular permeability	0.810775575	1.196509043
ENSG00000095564	BTAF1 subnetwork	0.802451484	1.196514951
GO:0055021	regulation of cardiac muscle tissue growth	0.812254655	1.196515029
MP:0002428	abnormal semicircular canal morphology	0.813825366	1.19651596
GO:0042158	lipoprotein biosynthetic process	0.810296759	1.196517036
ENSG00000126267	COX6B1 subnetwork	0.809122446	1.196527637
MP:0006085	myocardial necrosis	0.72356773	1.196537162
KEGG_AMINOACYL_TRNA_BIOSY	KEGG_AMINOACYL_TRNA_BIOSYNTHESIS	0.811657278	1.196537802
ENSG00000113318	MSH3 subnetwork	0.825770099	1.196544191
KEGG_ARGININE_AND_PROLINE_	KEGG_ARGININE_AND_PROLINE_METABOLISM	0.811986698	1.196544244
GO:0009083	branched chain family amino acid catabolic process	0.800931234	1.19654908
ENSG00000179801	ENSG00000179801 subnetwork	0.80156044	1.1965519
MP:0001056	abnormal cranial nerve morphology	0.802340009	1.196555068
REACTOME_ANTIGEN_PROCESSIN	REACTOME_ANTIGEN_PROCESSING:CROSS_PRESENTATI	0.810212388	1.196557128
ENSG00000149743	TRPT1 subnetwork	0.800777163	1.196563714
ENSG00000101849	TBL1X subnetwork	0.799565951	1.196563908
GO:0007517	muscle organ development	0.811616238	1.196567737
GO:0006367	transcription initiation from RNA polymerase II promoter	0.801918545	1.196568627
GO:0033121	regulation of purine nucleotide catabolic process	0.809497344	1.19656952
ENSG00000135604	STX11 subnetwork	0.825705801	1.196578608
GO:0030964	NADH dehydrogenase complex	0.799464502	1.19657892
GO:0000780	condensed nuclear chromosome, centromeric region	0.810472149	1.196583443
ENSG00000173120	KDM2A subnetwork	0.826211041	1.196590232
GO:0040020	regulation of meiosis	0.812217191	1.196590336
GO:0010737	protein kinase A signaling cascade	0.808860946	1.19659206
MP:0009746	enhanced behavioral response to xenobiotic	0.810570732	1.196593895
MP:0001244	thin dermal layer	0.808271523	1.196594364

GO:0014821	phasic smooth muscle contraction	0.825535043	1.196597795
GO:0050764	regulation of phagocytosis	0.808389278	1.196600122
GO:0050909	sensory perception of taste	0.808712815	1.196601499
GO:0016769	transferase activity, transferring nitrogenous groups	0.723735587	1.196605112
GO:0035050	embryonic heart tube development	0.809100037	1.196608282
GO:0031667	response to nutrient levels	0.800857437	1.196610083
GO:0044070	regulation of anion transport	0.808804245	1.196611972
GO:0000139	Golgi membrane	0.810755177	1.196614794
ENSG00000103043	VAC14 subnetwork	0.812138506	1.196615214
ENSG00000124702	KLHDC3 subnetwork	0.811769028	1.196628987
ENSG00000188763	FZD9 subnetwork	0.825478174	1.196632227
GO:0045807	positive regulation of endocytosis	0.810175357	1.196637678
ENSG00000011485	PPP5C subnetwork	0.825301333	1.196646463
GO:0051917	regulation of fibrinolysis	0.801515015	1.196648616
ENSG00000136158	SPRY2 subnetwork	0.800735797	1.196650302
ENSG00000120805	ARL1 subnetwork	0.802304559	1.196651695
ENSG00000063245	EPN1 subnetwork	0.81197175	1.196654894
MP:0003225	axonal dystrophy	0.723564565	1.19666066
GO:0032925	regulation of activin receptor signaling pathway	0.724434408	1.196664792
ENSG00000072849	DERL2 subnetwork	0.800667924	1.196670417
GO:0015629	actin cytoskeleton	0.825137075	1.196670642
ENSG00000008853	RHOBTB2 subnetwork	0.808672269	1.19667207
ENSG00000198561	CTNND1 subnetwork	0.825682386	1.196672626
GO:0090183	regulation of kidney development	0.810465488	1.196684189
REACTOME_NUCLEOTIDE:LIKE_PL	REACTOME_NUCLEOTIDE:LIKE_PURINERGIC_RECEPTORS	0.811891868	1.196684832
GO:0030811	regulation of nucleotide catabolic process	0.809497344	1.196690618
GO:0061136	regulation of proteasomal protein catabolic process	0.825046718	1.19669516
GO:0005747	mitochondrial respiratory chain complex I	0.799464502	1.196701496
GO:0051184	cofactor transporter activity	0.784169841	1.196703526
GO:0002080	acrosomal membrane	0.826210728	1.196709024
GO:0051924	regulation of calcium ion transport	0.824979136	1.196709742
ENSG00000120253	NUP43 subnetwork	0.808547174	1.196711926
REACTOME_ACTIVATION_OF_CA:	REACTOME_ACTIVATION_OF_CA:PERMEABLE_KAINATE_	0.723910152	1.196712822
ENSG00000196517	SLC6A9 subnetwork	0.800613303	1.196721228
GO:0051297	centrosome organization	0.808388856	1.196721395
ENSG00000179262	RAD23A subnetwork	0.783990962	1.196723706
ENSG00000106123	EPHB6 subnetwork	0.724329755	1.196737174
GO:0005776	autophagic vacuole	0.724761343	1.196744631
GO:0000803	sex chromosome	0.82527747	1.196750472
ENSG00000116984	MTR subnetwork	0.825476586	1.196751118
REACTOME_SIGNAL_REGULATOR	REACTOME_SIGNAL_REGULATORY_PROTEIN_SIRP_FAM	0.724179943	1.19675332
GO:0042157	lipoprotein metabolic process	0.784122555	1.196755347
MP:0005605	increased bone mass	0.724260882	1.196759311
GO:0016411	acylglycerol O-acyltransferase activity	0.723545982	1.196761658
ENSG000000057663	ATG5 subnetwork	0.722240361	1.19676746
GO:0009108	coenzyme biosynthetic process	0.808654384	1.196767984
GO:0010043	response to zinc ion	0.824318515	1.196771787
GO:0015893	drug transport	0.826058599	1.196772912
ENSG00000122122	SASH3 subnetwork	0.72442413	1.19678254
MP:0009146	abnormal pancreatic acinar cell morphology	0.82617874	1.196783161
GO:0060768	regulation of epithelial cell proliferation involved in pros	0.773868444	1.196788845
ENSG00000110422	HIPK3 subnetwork	0.724598861	1.196788888
ENSG000000021574	SPAST subnetwork	0.824264979	1.196791364
ENSG00000206349	ENSG00000206349 subnetwork	0.723363825	1.196800361

MP:0002108	abnormal muscle morphology	0.824108003	1.196800677
GO:0042147	retrograde transport, endosome to Golgi	0.797760027	1.196807309
MP:0003620	oliguria	0.824958879	1.196808828
MP:0009400	decreased skeletal muscle fiber size	0.722158247	1.196812232
ENSG00000168454	TXNDC2 subnetwork	0.814104988	1.196818365
GO:0045271	respiratory chain complex I	0.799464502	1.196824096
REACTOME_DIABETES_PATHWAY	REACTOME_DIABETES_PATHWAYS	0.725057259	1.196835656
GO:0001837	epithelial to mesenchymal transition	0.724137362	1.196837366
ENSG00000124422	USP22 subnetwork	0.783982496	1.196838151
ENSG00000198888	MT-ND1 subnetwork	0.800606325	1.196838551
ENSG00000122679	RAMP3 subnetwork	0.822889995	1.196840741
GO:0008527	taste receptor activity	0.724734803	1.196845479
REACTOME_IONOTROPIC_ACTIVI	REACTOME_IONOTROPIC_ACTIVITY_OF_KAINATE_RECEI	0.723910152	1.196847557
ENSG00000075142	SRI subnetwork	0.79745095	1.196862483
ENSG00000168872	DDX19A subnetwork	0.822513252	1.196864094
ENSG00000134259	NGF subnetwork	0.728138309	1.196865204
ENSG00000211619	ENSG00000211619 subnetwork	0.798919077	1.196868273
ENSG00000113300	CNOT6 subnetwork	0.773828319	1.196873019
ENSG00000130066	SAT1 subnetwork	0.824068625	1.196875
MP:0008825	abnormal cardiac epithelial to mesenchymal transition	0.823950616	1.196884642
GO:0043001	Golgi to plasma membrane protein transport	0.823668644	1.19688869
ENSG00000124795	DEK subnetwork	0.82425112	1.196890547
GO:0047496	vesicle transport along microtubule	0.824913839	1.19689302
MP:0000276	heart right ventricle hypertrophy	0.723544335	1.196896474
ENSG00000181104	F2R subnetwork	0.799901451	1.196897081
ENSG00000122034	GTF3A subnetwork	0.797718294	1.196899384
GO:0045823	positive regulation of heart contraction	0.722398968	1.196903204
GO:0006457	protein folding	0.724074518	1.196904548
MP:0002239	abnormal nasal septum morphology	0.799410327	1.196905738
GO:0016529	sarcoplasmic reticulum	0.797565438	1.196909016
ENSG00000135631	RAB11FIP5 subnetwork	0.822200934	1.196922693
ENSG00000213905	ENSG00000213905 subnetwork	0.722137614	1.196924726
ENSG00000139190	VAMP1 subnetwork	0.823096282	1.196926066
GO:0072203	cell proliferation involved in metanephros development	0.728079801	1.196926436
GO:0006023	aminoglycan biosynthetic process	0.800020783	1.196933238
GO:2000104	negative regulation of DNA-dependent DNA replication	0.784431312	1.196933347
GO:0071674	mononuclear cell migration	0.800406063	1.196934807
ENSG00000206454	POU5F1 subnetwork	0.723363825	1.196935211
GO:0018298	protein-chromophore linkage	0.823629809	1.196938166
GO:0001936	regulation of endothelial cell proliferation	0.783963689	1.196942183
ENSG00000197621	ENSG00000197621 subnetwork	0.725050259	1.196947723
REACTOME_CELL:CELL_COMMUN	REACTOME_CELL:CELL_COMMUNICATION	0.823892719	1.196949034
ENSG00000108262	GIT1 subnetwork	0.797669134	1.196950406
ENSG00000004779	NDUFAB1 subnetwork	0.800596321	1.196950783
REACTOME_REMOVAL_OF_LICEN	REACTOME_REMOVAL_OF_LICENSING_FACTORS_FROM	0.822884418	1.196955048
GO:0002042	cell migration involved in sprouting angiogenesis	0.728269188	1.19695511
GO:0006360	transcription from RNA polymerase I promoter	0.784749314	1.196955479
ENSG00000156110	ADK subnetwork	0.799076248	1.19695572
REACTOME_MITOTIC_PROMETAP	REACTOME_MITOTIC_PROMETAPHASE	0.727142731	1.196956278
MP:0006086	decreased body mass index	0.797360919	1.196959425
GO:2000377	regulation of reactive oxygen species metabolic process	0.79884166	1.196965036
MP:0000443	abnormal snout morphology	0.798898583	1.196965348
ENSG00000102468	HTR2A subnetwork	0.822489221	1.196968488
GO:0045137	development of primary sexual characteristics	0.81452302	1.196970612

GO:0007622	rhythmic behavior	0.728034958	1.196976484
GO:0032371	regulation of sterol transport	0.773809344	1.196978341
ENSG00000108953	YWHAЕ subnetwork	0.774080657	1.196979299
GO:0032011	ARF protein signal transduction	0.799376995	1.196982273
GO:0001825	blastocyst formation	0.797447122	1.196985415
ENSG00000100412	ACO2 subnetwork	0.824909269	1.196987173
GO:0043486	histone exchange	0.815782869	1.196990252
GO:0032148	activation of protein kinase B activity	0.815886849	1.196995579
REACTOME_TRANSPORT_OF_MA	REACTOME_TRANSPORT_OF_MATURE_TRANSCRIPT_TO	0.800533755	1.196996521
GO:0048194	Golgi vesicle budding	0.784673559	1.196996872
GO:0072593	reactive oxygen species metabolic process	0.785253394	1.196999062
GO:0048193	Golgi vesicle transport	0.78534502	1.196999375
ENSG00000132670	PTPRA subnetwork	0.814683962	1.197001409
REACTOME_L1CAM_INTERACTIOI	REACTOME_L1CAM_INTERACTIONS	0.799298814	1.19700246
GO:0060322	head development	0.82235472	1.197002793
ENSG00000183648	NDUFB1 subnetwork	0.727956455	1.197004144
ENSG00000130561	SAG subnetwork	0.823070165	1.197010463
GO:0070304	positive regulation of stress-activated protein kinase sigr	0.823582065	1.197012547
REACTOME_CDC6_ASSOCIATION	REACTOME_CDC6_ASSOCIATION_WITH_THE_ORCORIGI	0.823523111	1.197017229
MP:0002563	shortened circadian period	0.797324734	1.197025889
ENSG00000028528	SNX1 subnetwork	0.798049478	1.197028331
ENSG00000090776	EFNB1 subnetwork	0.773113945	1.197028656
MP:0002826	tonic seizures	0.800400528	1.19703173
GO:0071417	cellular response to organic nitrogen	0.774179762	1.197037702
GO:0005929	cilium	0.822199808	1.197042099
GO:0034453	microtubule anchoring	0.815037947	1.197042849
ENSG00000196290	NIF3L1 subnetwork	0.798137632	1.197044032
GO:0070534	protein K63-linked ubiquitination	0.727114672	1.197045633
GO:0044283	small molecule biosynthetic process	0.798709613	1.197046154
GO:0051145	smooth muscle cell differentiation	0.783942807	1.197046237
REACTOME_REMOVAL_OF_THE_F	REACTOME_REMOVAL_OF_THE_FLAP_INTERMEDIATE	0.785175018	1.197050855
ENSG00000125266	EFNB2 subnetwork	0.816177508	1.197051733
GO:0000922	spindle pole	0.823885565	1.19705326
GO:0016620	oxidoreductase activity, acting on the aldehyde or oxo gr	0.82468334	1.197055898
GO:0009881	photoreceptor activity	0.722646532	1.19705617
ENSG00000108688	CCL7 subnetwork	0.798823378	1.197057014
GO:0000737	DNA catabolic process, endonucleolytic	0.814497725	1.197060896
MP:0002016	ovary cysts	0.824878636	1.197061456
GO:0046330	positive regulation of JNK cascade	0.814795091	1.197067109
GO:0043244	regulation of protein complex disassembly	0.80034907	1.197067254
ENSG00000204531	POU5F1 subnetwork	0.723363825	1.197070092
ENSG00000198841	KTI12 subnetwork	0.822876431	1.197074362
ENSG00000189043	NDUFA4 subnetwork	0.784654677	1.197074773
MP:0001231	abnormal epidermis stratum basale morphology	0.725043609	1.197076681
GO:0031146	SCF-dependent proteasomal ubiquitin-dependent protei	0.799240662	1.19707902
GO:0006513	protein monoubiquitination	0.784596934	1.197079683
ENSG00000169621	APLF subnetwork	0.774471668	1.19708087
ENSG00000174111	SOC57 subnetwork	0.800227021	1.197082011
GO:2001014	regulation of skeletal muscle cell differentiation	0.822488964	1.197082876
ENSG00000101084	C20orf24 subnetwork	0.815757718	1.197085427
ENSG00000138107	ACTR1A subnetwork	0.723286792	1.197086667
GO:0008395	steroid hydroxylase activity	0.773257625	1.197087122
ENSG00000170776	AKAP13 subnetwork	0.816373254	1.197087476
ENSG00000100479	POLE2 subnetwork	0.727834726	1.197087487

ENSG00000132824	SERINC3 subnetwork	0.814985168	1.197087818
GO:0043271	negative regulation of ion transport	0.816268941	1.197092206
ENSG00000160200	CBS subnetwork	0.823411682	1.197096324
GO:0051262	protein tetramerization	0.798687929	1.197097138
GO:0006626	protein targeting to mitochondrion	0.727942273	1.197104615
GO:0032374	regulation of cholesterol transport	0.773809344	1.197104818
MP:0005608	cardiac interstitial fibrosis	0.815675184	1.197110262
GO:0007017	microtubule-based process	0.800312092	1.197118141
ENSG00000108691	CCL2 subnetwork	0.815254896	1.197118866
MP:0003047	abnormal thoracic vertebrae morphology	0.824625071	1.197120263
REACTOME_SYNTHESIS_OF_BILE	REACTOME_SYNTHESIS_OF_BILE_ACIDS_AND_BILE_SAL	0.814678574	1.197121868
GO:0005746	mitochondrial respiratory chain	0.772731651	1.197122302
REACTOME_ASSOCIATION_OF_LI	REACTOME_ASSOCIATION_OF_LICENSING_FACTORS_WI	0.722611809	1.197123519
MP:0001666	abnormal intestinal absorption	0.727074227	1.197123795
GO:0060271	cilium morphogenesis	0.822111102	1.197126322
MP:0000953	abnormal oligodendrocyte morphology	0.823509602	1.197126494
ENSG00000133104	SPG20 subnetwork	0.816154118	1.197126783
ENSG00000075388	FGF4 subnetwork	0.798449211	1.197127026
GO:0043252	sodium-independent organic anion transport	0.797317464	1.197128326
REACTOME_MITOCHONDRIAL_TR	REACTOME_MITOCHONDRIAL_TRNA_AMINOACYLATION	0.773102295	1.197128807
ENSG00000142864	SERBP1 subnetwork	0.824834394	1.197130781
ENSG00000153767	GTF2E1 subnetwork	0.773001989	1.197133792
GO:0032391	photoreceptor connecting cilium	0.783907674	1.197134656
ENSG00000116266	STXBP3 subnetwork	0.771925283	1.197135141
GO:0010657	muscle cell apoptotic process	0.816068146	1.197136542
ENSG00000103168	TAF1C subnetwork	0.727792465	1.197137576
ENSG00000160916	ENSG00000160916 subnetwork	0.798650463	1.197137874
ENSG00000039068	CDH1 subnetwork	0.77434604	1.197138332
MP:0010018	pulmonary vascular congestion	0.798807507	1.197138755
MP:0002633	persistent truncus arteriosus	0.82218164	1.197141574
ENSG00000131143	COX4I1 subnetwork	0.785065454	1.197144048
ENSG00000176732	PFN4 subnetwork	0.785561696	1.197145536
MP:0002152	abnormal brain morphology	0.823270701	1.197150543
REACTOME_SHC:MEDIATED_CAS	REACTOME_SHC:MEDIATED_CASCADE	0.814943172	1.197152918
MP:0003212	increased susceptibility to age related obesity	0.773578185	1.197156749
GO:0022898	regulation of transmembrane transporter activity	0.815189736	1.197163834
ENSG00000069248	NUP133 subnetwork	0.785151057	1.19716519
KEGG_LONG_TERM_DEPRESSION	KEGG_LONG_TERM_DEPRESSION	0.785008108	1.197169811
ENSG00000110786	PTPN5 subnetwork	0.772038037	1.197172509
ENSG00000144837	PLA1A subnetwork	0.772820684	1.197171755
ENSG00000175203	DCTN2 subnetwork	0.81438591	1.19717608
REACTOME_APOPTOTIC_CLEAVA	REACTOME_APOPTOTIC_CLEAVAGE_OF_CELL_ADHESIO	0.816522444	1.197178148
REACTOME_PHASE_II_CONJUGAT	REACTOME_PHASE_II_CONJUGATION	0.773783617	1.197178485
MP:0001924	infertility	0.822863737	1.197178746
GO:0006309	apoptotic DNA fragmentation	0.814497725	1.197181397
GO:2000146	negative regulation of cell motility	0.773672119	1.197183471
ENSG00000143498	TAF1A subnetwork	0.772677985	1.197185483
KEGG_CITRATE_CYCLE_TCA_CYCL	KEGG_CITRATE_CYCLE_TCA_CYCLE	0.723260567	1.197187782
MP:0002693	abnormal pancreas physiology	0.815483917	1.197189825
ENSG00000082781	ITGB5 subnetwork	0.725453894	1.19719038
ENSG00000147123	NDUFB11 subnetwork	0.7714074	1.197191607
REACTOME_RNA_POLYMERASE_I	REACTOME_RNA_POLYMERASE_II_TRANSCRIPTION	0.798322907	1.197198276
ENSG00000120697	ALG5 subnetwork	0.822053023	1.197200878
GO:0007018	microtubule-based movement	0.798416197	1.197203694

MP:0002752	abnormal somatic nervous system morphology	0.82340031	1.197205619
ENSG00000106628	POLD2 subnetwork	0.774469906	1.197207264
GO:0010717	regulation of epithelial to mesenchymal transition	0.773539457	1.197209302
ENSG00000079459	FDFT1 subnetwork	0.727043258	1.197213188
MP:0010402	ventricular septal defect	0.727431085	1.19721475
ENSG00000099624	ATP5D subnetwork	0.772607634	1.197216931
ENSG00000171843	MLLT3 subnetwork	0.772954427	1.197218109
ENSG00000142156	COL6A1 subnetwork	0.798618997	1.197224787
GO:0060324	face development	0.771347671	1.197228405
GO:0005759	mitochondrial matrix	0.725401313	1.197229403
MP:0001454	abnormal cued conditioning behavior	0.815422411	1.197229764
GO:0009266	response to temperature stimulus	0.815672843	1.197230599
ENSG00000118972	FGF23 subnetwork	0.783890051	1.197233532
ENSG00000182944	EWSR1 subnetwork	0.797301601	1.197235923
ENSG00000020633	RUNX3 subnetwork	0.727555942	1.197237476
MP:0004937	dilated heart	0.822828447	1.197238285
GO:0090009	primitive streak formation	0.772162908	1.197246929
ENSG00000183386	FHL3 subnetwork	0.784970721	1.197247706
ENSG00000109680	TBC1D19 subnetwork	0.772406258	1.197247804
ENSG00000004864	SLC25A13 subnetwork	0.771918141	1.19725135
ENSG00000113327	GABRG2 subnetwork	0.816681057	1.197258761
MP:0001299	abnormal eye distance/ position	0.783838426	1.197259344
GO:0048745	smooth muscle tissue development	0.727777953	1.197260504
ENSG00000171132	PRKCE subnetwork	0.723197515	1.197260737
ENSG00000127337	YEATS4 subnetwork	0.816764651	1.197264056
GO:0009156	ribonucleoside monophosphate biosynthetic process	0.727387987	1.197270485
REACTOME_PRESYNAPTIC_FUNCTION	REACTOME_PRESYNAPTIC_FUNCTION_OF_KAINATE_RECEPTOR	0.822028172	1.197285429
GO:0072111	cell proliferation involved in kidney development	0.815627316	1.19729064
GO:0048565	digestive tract development	0.771304911	1.197291711
ENSG00000120053	GOT1 subnetwork	0.723153949	1.197299887
GO:0051153	regulation of striated muscle cell differentiation	0.796885959	1.197301049
GO:0006613	cotranslational protein targeting to membrane	0.797132115	1.19730702
ENSG00000101843	PSMD10 subnetwork	0.773510019	1.197314727
MP:0004632	abnormal cochlear OHC efferent innervation pattern	0.783798415	1.197316487
GO:0045604	regulation of epidermal cell differentiation	0.797067744	1.197322163
GO:0004519	endonuclease activity	0.725594949	1.197325542
ENSG00000108813	DLX4 subnetwork	0.772310624	1.197337215
REACTOME_SYNTHESIS_OF_DNA	REACTOME_SYNTHESIS_OF_DNA	0.797009663	1.197337309
ENSG00000127586	CHTF18 subnetwork	0.727041362	1.197341857
ENSG00000152804	HHEX subnetwork	0.797283707	1.197343541
REACTOME_G1S_DNA_DAMAGE_CHECKPOINTS	REACTOME_G1S_DNA_DAMAGE_CHECKPOINTS	0.772603567	1.197343634
ENSG00000121691	CAT subnetwork	0.771895963	1.197351695
MP:0001694	failure to form egg cylinders	0.771235798	1.197360331
ENSG00000076356	PLXNA2 subnetwork	0.727744512	1.197366652
GO:0000380	alternative nuclear mRNA splicing, via spliceosome	0.772397089	1.197369257
ENSG00000107816	LZTS2 subnetwork	0.796845508	1.197377892
ENSG00000059573	ALDH18A1 subnetwork	0.726888136	1.197380525
ENSG00000120063	GNA13 subnetwork	0.783765304	1.197384085
GO:0030194	positive regulation of blood coagulation	0.726981167	1.197386427
GO:0005782	peroxisomal matrix	0.822013976	1.197389959
ENSG00000165140	FBP1 subnetwork	0.785838593	1.197390625
GO:0003073	regulation of systemic arterial blood pressure	0.786054055	1.19740679
GO:0008237	metallopeptidase activity	0.771632649	1.197414433
ENSG00000146733	PSPH subnetwork	0.786288448	1.197418011

GO:0050664	oxidoreductase activity, acting on NADH or NADPH, oxyg	0.728595278	1.197419969
ENSG00000153933	DGKE subnetwork	0.723146651	1.197429248
ENSG00000117984	CTSD subnetwork	0.797264731	1.197430627
MP:0002836	abnormal chorion morphology	0.771836572	1.197430872
GO:0042384	cilium assembly	0.783699273	1.197436031
GO:0006184	GTP catabolic process	0.783319043	1.197440184
GO:0032993	protein-DNA complex	0.772554021	1.197443903
MP:0005642	decreased mean corpuscular hemoglobin concentration	0.817113938	1.197460859
GO:0022900	electron transport chain	0.723092282	1.197462788
MP:0005216	abnormal pancreatic alpha cell morphology	0.785977144	1.197463806
MP:0000079	abnormal basioccipital bone morphology	0.786235241	1.197464598
GO:0030203	glycosaminoglycan metabolic process	0.796813721	1.197470177
GO:0019894	kinesin binding	0.816961135	1.197470387
GO:0051904	pigment granule transport	0.728704218	1.197476217
GO:0048525	negative regulation of viral reproduction	0.783229833	1.197476489
ENSG00000107623	GDF10 subnetwork	0.783549017	1.19747728
ENSG00000172270	BSG subnetwork	0.783640441	1.197477543
ENSG00000162702	ZNF281 subnetwork	0.722989023	1.197479418
GO:0048487	beta-tubulin binding	0.783464556	1.19748224
ENSG00000140285	FGF7 subnetwork	0.771235795	1.197487277
GO:0006261	DNA-dependent DNA replication	0.786429013	1.197491151
GO:0006071	glycerol metabolic process	0.771762729	1.197504768
ENSG00000188878	FBF1 subnetwork	0.821637816	1.197508488
GO:0031907	microbody lumen	0.822013976	1.197509483
ENSG00000181090	EHMT1 subnetwork	0.72688584	1.197514866
GO:0015036	disulfide oxidoreductase activity	0.796775604	1.197536768
GO:0046605	regulation of centrosome cycle	0.786215159	1.197542435
REACTOME_CALCITONIN:LIKE_LIG	REACTOME_CALCITONIN:LIKE_LIGAND_RECEPTORS	0.817081681	1.19754592
ENSG00000188419	CHM subnetwork	0.771190987	1.197550631
GO:0000786	nucleosome	0.821882334	1.197553914
GO:0016051	carbohydrate biosynthetic process	0.816946289	1.197560486
MP:0010984	abnormal metanephric mesenchyme morphology	0.817266147	1.197561465
GO:0042743	hydrogen peroxide metabolic process	0.821484573	1.197567918
ENSG00000070182	SPTB subnetwork	0.821779987	1.197578632
ENSG00000072201	LNK1 subnetwork	0.818464159	1.197579675
ENSG00000131721	RHOXF2 subnetwork	0.820688643	1.197580726
ENSG00000100934	SEC23A subnetwork	0.821171863	1.197581934
ENSG00000198873	GRK5 subnetwork	0.796737215	1.197593088
MP:0001208	blistering	0.796352567	1.197596995
REACTOME_FANCONI_ANEMIA_P	REACTOME_FANCONI_ANEMIA_PATHWAY	0.821613219	1.197598122
GO:0045071	negative regulation of viral genome replication	0.783229833	1.19760163
GO:0008242	omega peptidase activity	0.771049419	1.197608442
MP:0002273	abnormal pulmonary alveolus epithelial cell morphology	0.725835856	1.19761236
ENSG00000077235	GTF3C1 subnetwork	0.72666401	1.197615039
REACTOME_GAP_JUNCTION_ASSI	REACTOME_GAP_JUNCTION_ASSEMBLY	0.822007373	1.197619048
GO:0006893	Golgi to plasma membrane transport	0.786867529	1.197622268
ENSG00000115392	FANCL subnetwork	0.776518413	1.197624065
MP:0004777	abnormal phospholipid level	0.783073707	1.19762726
GO:0005905	coated pit	0.81842211	1.197629548
MP:0000757	herniated abdominal wall	0.770888136	1.197634454
ENSG00000054116	TRAPPC3 subnetwork	0.820510407	1.197635
MP:0001073	abnormal glossopharyngeal nerve morphology	0.726875465	1.197643627
GO:0001556	oocyte maturation	0.771170541	1.197645811
ENSG00000174469	CNTNAP2 subnetwork	0.820921107	1.197646177

GO:0030258	lipid modification	0.821017055	1.197646412
ENSG00000160551	TAOK1 subnetwork	0.821406386	1.197647353
ENSG00000116809	ZBTB17 subnetwork	0.818903044	1.197655578
ENSG00000130762	ARHGEF16 subnetwork	0.821475582	1.197657577
KEGG_ONE_CARBON_POOL_BY_F	KEGG_ONE_CARBON_POOL_BY_FOLATE	0.770839218	1.197666603
GO:0072001	renal system development	0.819231265	1.197671507
ENSG00000135363	LMO2 subnetwork	0.765639909	1.197672432
MP:0000182	increased circulating LDL cholesterol level	0.728959663	1.197677932
MP:0002576	abnormal enamel morphology	0.786828152	1.197679259
GO:0001967	suckling behavior	0.82082787	1.197680928
GO:0006906	vesicle fusion	0.821145254	1.197681623
GO:0016758	transferase activity, transferring hexosyl groups	0.77100444	1.197682435
MP:0004182	abnormal spermiation	0.767336483	1.197682472
MP:0004985	decreased osteoclast cell number	0.729050893	1.197683787
GO:0043534	blood vessel endothelial cell migration	0.765967353	1.197683851
ENSG00000106554	CHCHD3 subnetwork	0.78301048	1.197684508
GO:0016810	hydrolase activity, acting on carbon-nitrogen (but not pe	0.820457113	1.197684768
ENSG00000205531	NAP1L4 subnetwork	0.796724961	1.197685423
GO:0019002	GMP binding	0.820680569	1.197685463
MP:0010954	abnormal cellular respiration	0.767823089	1.197689277
GO:0031901	early endosome membrane	0.796619492	1.197690329
ENSG00000111237	VPS29 subnetwork	0.820622312	1.197700023
MP:0003982	increased cholesterol level	0.821341575	1.197702068
GO:0016127	sterol catabolic process	0.819702969	1.197702703
ENSG00000151552	QDPR subnetwork	0.776473612	1.197702845
MP:0011049	impaired adaptive thermogenesis	0.76578792	1.197704708
ENSG00000038382	TRIO subnetwork	0.796345588	1.197704817
MP:0005278	abnormal cholesterol homeostasis	0.78322113	1.197705895
MP:0005238	increased brain size	0.796245376	1.197709727
ENSG00000180340	FZD2 subnetwork	0.726631915	1.197710181
MP:0010403	atrial septal defect	0.818658787	1.197710191
GO:0030949	positive regulation of vascular endothelial growth factor	0.81750939	1.197712222
ENSG00000206427	PRRC2A subnetwork	0.770775718	1.197724138
GO:0055093	response to hyperoxia	0.819185512	1.197726362
GO:0034340	response to type I interferon	0.767280005	1.197730179
ENSG00000093167	LRRFIP2 subnetwork	0.7867759	1.197736261
GO:0005796	Golgi lumen	0.818419174	1.197739575
ENSG00000115942	ORC2 subnetwork	0.819332484	1.197741839
ENSG00000127554	GFER subnetwork	0.726564891	1.197743601
GO:0009055	electron carrier activity	0.726850299	1.197744361
REACTOME_SHC:RELATED_EVENT	REACTOME_SHC:RELATED_EVENTS	0.767779118	1.197747604
MP:0003910	decreased eating behavior	0.818892165	1.197755736
MP:0005028	abnormal trophectoderm morphology	0.765595306	1.197757608
GO:0048278	vesicle docking	0.796191476	1.197776405
ENSG00000127824	TUBA4A subnetwork	0.782830537	1.197777894
REACTOME_SIGNALLING_TO_P38	REACTOME_SIGNALLING_TO_P38_VIA_RIT_AND_RIN	0.766293483	1.197780623
ENSG00000154277	UCHL1 subnetwork	0.78672129	1.197782867
ENSG00000143333	RGS16 subnetwork	0.791593501	1.197785367
ENSG00000066926	FECH subnetwork	0.796542582	1.197787611
GO:0051325	interphase	0.820018152	1.197788452
ENSG00000167283	ATP5L subnetwork	0.782916843	1.197788582
MP:0000492	abnormal rectum morphology	0.820452608	1.197794559
ENSG00000213611	ENSG00000213611 subnetwork	0.818001487	1.197798616
ENSG00000197959	DNM3 subnetwork	0.765951294	1.197801025

ENSG00000167792	NDUFV1 subnetwork	0.783006966	1.197804496
GO:0060038	cardiac muscle cell proliferation	0.796614735	1.197808417
ENSG00000126005	ENSG00000126005 subnetwork	0.77069297	1.197808554
ENSG00000114784	EIF1B subnetwork	0.776710554	1.197808681
GO:0070206	protein trimerization	0.795944519	1.19781176
REACTOME_VPU_MEDIATED_DEGRADATION_OF_CD4	REACTOME_VPU_MEDIATED_DEGRADATION_OF_CD4	0.819153854	1.197816288
MP:0000067	osteopetrosis	0.765560944	1.197821444
GO:0006707	cholesterol catabolic process	0.819702969	1.197822605
GO:0006497	protein lipidation	0.817698093	1.197822815
ENSG00000085415	SEH1L subnetwork	0.776470007	1.197823796
ENSG00000196890	HIST3H2BB subnetwork	0.76726673	1.197825855
GO:0002070	epithelial cell maturation	0.796136344	1.197827654
GO:0006650	glycerophospholipid metabolic process	0.818334345	1.197829356
MP:0002841	impaired skeletal muscle contractility	0.767732148	1.19783257
ENSG00000101057	MYBL2 subnetwork	0.7408434	1.197834472
ENSG00000153046	CDYL subnetwork	0.740910773	1.197834711
MP:0003149	abnormal tectorial membrane morphology	0.767488436	1.197842531
GO:0043624	cellular protein complex disassembly	0.817820775	1.197843098
ENSG00000206318	ENSG00000206318 subnetwork	0.770775718	1.197851231
GO:0030520	intracellular estrogen receptor signaling pathway	0.765499862	1.197853252
GO:0010389	regulation of G2/M transition of mitotic cell cycle	0.767581905	1.197853414
GO:0017091	AU-rich element binding	0.818410339	1.197854637
GO:0070888	E-box binding	0.766233181	1.19786042
MP:0008875	abnormal xenobiotic pharmacokinetics	0.770645486	1.197861388
GO:0000726	non-recombinational repair	0.791563564	1.197862761
MP:0003419	delayed endochondral bone ossification	0.817962832	1.197863591
GO:0072372	primary cilium	0.766156517	1.197865528
MP:0000278	abnormal myocardial fiber morphology	0.819629479	1.197867441
ENSG00000168283	BMI1 subnetwork	0.81888764	1.197875752
MP:0008033	impaired lipolysis	0.726564876	1.197878073
ENSG00000151276	MAGI1 subnetwork	0.796063675	1.197878913
GO:0043241	protein complex disassembly	0.765321277	1.1978795
GO:0031301	integral to organelle membrane	0.791740384	1.197883899
GO:0031124	mRNA 3'-end processing	0.820253057	1.197883942
GO:0014066	regulation of phosphatidylinositol 3-kinase cascade	0.765410377	1.197885067
MP:0002981	increased liver weight	0.819999868	1.197888311
GO:0007584	response to nutrient	0.820424693	1.197889367
ENSG00000083312	TNPO1 subnetwork	0.819553173	1.197897266
ENSG00000114416	FXR1 subnetwork	0.795397442	1.197897991
GO:0070469	respiratory chain	0.770438872	1.197898089
GO:0042773	ATP synthesis coupled electron transport	0.78282526	1.197903158
ENSG00000075618	FSCN1 subnetwork	0.770360458	1.197903174
GO:0045445	myoblast differentiation	0.790922929	1.197912998
REACTOME_PLATELET_AGGREGATION_PLUG_FORMATI	REACTOME_PLATELET_AGGREGATION_PLUG_FORMATI	0.767075826	1.197915778
GO:0007281	germ cell development	0.726242255	1.197916433
GO:0071514	genetic imprinting	0.776438885	1.197918423
ENSG00000122884	P4HA1 subnetwork	0.817930953	1.197918547
ENSG00000128322	IGLL1 subnetwork	0.775279878	1.197920625
GO:0043044	ATP-dependent chromatin remodeling	0.767703325	1.19792288
GO:0005875	microtubule associated complex	0.795940673	1.19792482
ENSG00000143033	MTF2 subnetwork	0.793582419	1.197929575
ENSG00000138802	SEC24B subnetwork	0.767255615	1.197932211
MP:0000192	abnormal mineral level	0.818314111	1.197934423
MP:0008807	increased liver iron level	0.760480233	1.197941524

GO:0016878	acid-thiol ligase activity	0.726357136	1.197944744
ENSG00000140990	NDUFB10 subnetwork	0.820362154	1.19794918
REACTOME_AMINE:DERIVED_HO	REACTOME_AMINE:DERIVED_HORMONES	0.776388562	1.197949826
REACTOME_AMINO_ACID_SYNTH	REACTOME_AMINO_ACID_SYNTHESIS_AND_INTERCONV	0.726419673	1.19795059
GO:0002063	chondrocyte development	0.792454085	1.197952642
MP:0003339	decreased pancreatic beta cell number	0.792655203	1.197953065
GO:0046320	regulation of fatty acid oxidation	0.740834299	1.197955472
GO:0003774	motor activity	0.726544717	1.197956434
GO:0090101	negative regulation of transmembrane receptor protein	0.791857246	1.197956544
GO:0090002	establishment of protein localization in plasma membrar	0.775178641	1.197957352
GO:0005544	calcium-dependent phospholipid binding	0.765290846	1.197964744
GO:0006690	icosanoid metabolic process	0.795376084	1.197969909
GO:0035335	peptidyl-tyrosine dephosphorylation	0.760421087	1.197973554
ENSG00000168291	PDHB subnetwork	0.793698276	1.197976252
GO:0033151	V(D)J recombination	0.791547439	1.1979764
REACTOME_MUSCLE_CONTRACTI	REACTOME_MUSCLE_CONTRACTION	0.770630872	1.197977922
GO:0051445	regulation of meiotic cell cycle	0.819979539	1.197983185
MP:0001074	abnormal vagus nerve morphology	0.820236032	1.19798379
GO:0015238	drug transmembrane transporter activity	0.790767564	1.197985082
KEGG_STARCH_AND_SUCROSE_N	KEGG_STARCH_AND_SUCROSE_METABOLISM	0.792792488	1.197989456
GO:0000977	RNA polymerase II regulatory region sequence-specific D	0.767017051	1.197995522
REACTOME_METABOLISM_OF_C/	REACTOME_METABOLISM_OF_CARBOHYDRATES	0.770351949	1.197998513
ENSG00000174718	C12orf35 subnetwork	0.795787603	1.198001648
ENSG00000197747	S100A10 subnetwork	0.790891006	1.198006008
GO:0072503	cellular divalent inorganic cation homeostasis	0.765233495	1.198007266
ENSG00000131269	ABCB7 subnetwork	0.818276637	1.198009426
ENSG00000124333	VAMP7 subnetwork	0.792101094	1.198013862
MP:0001496	audiogenic seizures	0.729352301	1.198014097
MP:0011085	complete postnatal lethality	0.795909661	1.198022453
ENSG00000127928	GNGT1 subnetwork	0.765160454	1.198023082
GO:0008654	phospholipid biosynthetic process	0.795632844	1.198026994
GO:0090150	establishment of protein localization in membrane	0.793489541	1.198027267
ENSG00000101265	RASSF2 subnetwork	0.741084305	1.198027766
GO:0042775	mitochondrial ATP synthesis coupled electron transport	0.78282526	1.198028449
ENSG00000144554	FANCD2 subnetwork	0.79412192	1.198028896
GO:0001840	neural plate development	0.790711411	1.198031496
ENSG00000033122	LRR7 subnetwork	0.792623771	1.198035567
ENSG00000122133	PAEP subnetwork	0.72622422	1.198039766
GO:0051385	response to mineralocorticoid stimulus	0.793564673	1.198042962
MP:0008414	abnormal spatial reference memory	0.767237034	1.198043919
MP:0005201	abnormal retinal pigment epithelium morphology	0.792424262	1.198045502
GO:0005355	glucose transmembrane transporter activity	0.766650202	1.198053126
GO:0055123	digestive system development	0.776915607	1.198056463
MP:0004592	small mandible	0.782765898	1.198059623
GO:0014888	striated muscle adaptation	0.740786921	1.198059965
ENSG00000112531	QKI subnetwork	0.761140225	1.198061224
GO:0030003	cellular cation homeostasis	0.7770086	1.198061934
GO:0012506	vesicle membrane	0.792987198	1.198062216
ENSG00000005189	ENSG00000005189 subnetwork	0.77637155	1.19806557
GO:0071697	ectodermal placode morphogenesis	0.795287948	1.198067409
GO:0006511	ubiquitin-dependent protein catabolic process	0.726156095	1.198067633
GO:0045927	positive regulation of growth	0.791502672	1.198069358
MP:0008582	short photoreceptor inner segment	0.790667206	1.198072739
GO:0045333	cellular respiration	0.765108382	1.198076307

REACTOME_SEROTONIN_RECEPTOR	REACTOME_SEROTONIN_RECEPTORS	0.795357776	1.198077914
ENSG00000182149	IST1 subnetwork	0.792046087	1.198080902
GO:0002027	regulation of heart rate	0.792352819	1.198081498
ENSG00000109062	SLC9A3R1 subnetwork	0.791097571	1.198084093
REACTOME_GENERIC_TRANSCRIPTION	REACTOME_GENERIC_TRANSCRIPTION_PATHWAY	0.766602542	1.198090259
MP:0001158	abnormal prostate gland morphology	0.795762047	1.198094159
GO:0016925	protein sumoylation	0.793431746	1.19809937
ENSG00000014641	MDH1 subnetwork	0.760418445	1.198102355
ENSG00000184640	SEPT9 subnetwork	0.787359448	1.198106533
GO:0000724	double-strand break repair via homologous recombination	0.740741038	1.198109359
ENSG00000180138	CSNK1A1L subnetwork	0.777101377	1.198109531
MP:0001302	eyelids open at birth	0.791324829	1.198110375
GO:0007603	phototransduction, visible light	0.793099042	1.198114085
GO:0004549	tRNA-specific ribonuclease activity	0.761017053	1.198114525
MP:0000522	kidney cortex cysts	0.791441253	1.198115747
ENSG00000163635	ATXN7 subnetwork	0.782724428	1.198116958
GO:0030228	lipoprotein particle receptor activity	0.767010828	1.198117936
ENSG00000157766	ACAN subnetwork	0.761102888	1.19812547
GO:0032886	regulation of microtubule-based process	0.770344015	1.19812573
REACTOME_THE_NLRP3_INFLAMMASOME	REACTOME_THE_NLRP3_INFLAMMASOME	0.787439283	1.198127536
GO:0034358	plasma lipoprotein particle	0.790550847	1.19812934
REACTOME_PROCESSIVE_SYNTHESIS_ON_THE_C-STRAND	REACTOME_PROCESSIVE_SYNTHESIS_ON_THE_C-STRAND	0.775544682	1.198131926
ENSG00000108669	CYTH1 subnetwork	0.794113293	1.198142223
GO:0006270	DNA-dependent DNA replication initiation	0.793370645	1.198145661
MP:0000527	abnormal kidney development	0.79297319	1.198155039
KEGG_REGULATION_OF_AUTOPHAGY	KEGG_REGULATION_OF_AUTOPHAGY	0.793218857	1.198155611
ENSG00000124406	ATP8A1 subnetwork	0.777362847	1.198157507
GO:0060976	coronary vasculature development	0.792302254	1.198158875
MP:0008814	reduced nerve conduction velocity	0.77745163	1.198162965
MP:0003827	abnormal Wolffian duct morphology	0.760833096	1.198173025
MP:0000875	abnormal cerebellar Purkinje cell layer	0.775708991	1.198174528
ENSG00000111262	KCNA1 subnetwork	0.768222237	1.198179302
ENSG00000176105	YES1 subnetwork	0.741259715	1.198182219
GO:0021903	rostrocaudal neural tube patterning	0.77631527	1.198186419
GO:0051329	interphase of mitotic cell cycle	0.776366081	1.19818661
MP:0006058	decreased cerebral infarction size	0.770130564	1.198188868
GO:0043087	regulation of GTPase activity	0.729981247	1.198188932
MP:0006090	abnormal utricle morphology	0.787327812	1.198189574
GO:0071696	ectodermal placode development	0.795287948	1.198190908
MP:0005657	abnormal neural plate morphology	0.790662891	1.19819171
GO:0048029	monosaccharide binding	0.7669791	1.198192386
GO:0006958	complement activation, classical pathway	0.729506819	1.19819331
GO:0051258	protein polymerization	0.777291832	1.198194167
ENSG00000168653	NDUFS5 subnetwork	0.760751918	1.198194325
ENSG00000008018	PSMB1 subnetwork	0.770230975	1.198194371
GO:2001021	negative regulation of response to DNA damage stimulus	0.760388324	1.198198925
ENSG00000198727	MT-CYB subnetwork	0.765099901	1.198199017
MP:0001648	abnormal apoptosis	0.729574396	1.198199105
MP:0001706	abnormal left-right axis patterning	0.761000741	1.198205652
GO:0051983	regulation of chromosome segregation	0.766901716	1.198208191
ENSG00000129214	SHBG subnetwork	0.740730118	1.198208379
ENSG00000101997	CCDC22 subnetwork	0.775832452	1.198211648
REACTOME_GLUCOSE_TRANSPORT	REACTOME_GLUCOSE_TRANSPORT	0.768326372	1.198216757
GO:0030027	lamellipodium	0.791315017	1.198218909

ENSG00000121390	PSPC1 subnetwork	0.77033115	1.198226423
ENSG00000101977	MCF2 subnetwork	0.777230248	1.198230834
ENSG00000130222	GADD45G subnetwork	0.760319001	1.19823637
GO:0006972	hyperosmotic response	0.78271977	1.19824231
MP:0003345	decreased rib number	0.776262356	1.198244227
ENSG00000092201	SUPT16H subnetwork	0.760973776	1.198248442
GO:0032436	positive regulation of proteasomal ubiquitin-dependent	0.794094745	1.198250413
MP:0003216	absence seizures	0.781992652	1.198251309
GO:0015175	neutral amino acid transmembrane transporter activity	0.775681347	1.198253482
GO:0032994	protein-lipid complex	0.790550847	1.198253524
ENSG00000184983	NDUFA6 subnetwork	0.793349741	1.198253952
GO:0005212	structural constituent of eye lens	0.775944967	1.19825931
ENSG00000198695	MT-ND6 subnetwork	0.746280142	1.198259442
REACTOME_SYNTHESIS_OF_GLYC	REACTOME_SYNTHESIS_OF_GLYCOSYLPHOSPHATIDYLIN	0.72983561	1.19826121
MP:0000065	abnormal bone marrow cavity morphology	0.777701707	1.198268421
GO:0015035	protein disulfide oxidoreductase activity	0.790480727	1.198268892
GO:0032309	icosanoid secretion	0.794040166	1.198291525
MP:0003651	abnormal axon outgrowth	0.769055177	1.198292735
ENSG00000112769	LAMA4 subnetwork	0.72994639	1.198294946
MP:0005324	ascites	0.781502729	1.198302421
KEGG_DNA_REPLICATION	KEGG_DNA_REPLICATION	0.74639218	1.198303415
KEGG_GLYCEROPHOSPHOLIPID_M	KEGG_GLYCEROPHOSPHOLIPID_METABOLISM	0.770109279	1.198305535
MP:0002427	disproportionate dwarf	0.768960628	1.198308511
GO:0060788	ectodermal placode formation	0.795287948	1.198314433
MP:0000761	thin diaphragm muscle	0.741495453	1.198314792
GO:0006884	cell volume homeostasis	0.76328425	1.198317797
MP:0004272	abnormal basement membrane morphology	0.760303784	1.19832222
MP:0002085	abnormal embryonic tissue morphology	0.795020283	1.198324224
GO:0051186	cofactor metabolic process	0.790423054	1.198325731
ENSG00000215693	ENSG00000215693 subnetwork	0.782693383	1.198325834
ENSG00000212868	ENSG00000212868 subnetwork	0.765099901	1.198327098
GO:0044450	microtubule organizing center part	0.776154891	1.198328235
MP:0001324	abnormal eye pigmentation	0.794474408	1.198328346
ENSG00000130299	GTPBP3 subnetwork	0.795117827	1.198329552
MP:0002116	abnormal craniofacial bone morphology	0.794969216	1.198334365
GO:0010565	regulation of cellular ketone metabolic process	0.740725249	1.198334987
GO:0051046	regulation of secretion	0.766900477	1.198336
GO:0071322	cellular response to carbohydrate stimulus	0.781354256	1.198338749
ENSG00000104738	MCM4 subnetwork	0.729796497	1.198339298
MP:0000286	abnormal mitral valve morphology	0.730173646	1.19834004
GO:0061097	regulation of protein tyrosine kinase activity	0.768890419	1.198350888
MP:0000163	abnormal cartilage morphology	0.782229112	1.198351131
ENSG00000140400	MAN2C1 subnetwork	0.759946798	1.198359156
ENSG00000112357	PEX7 subnetwork	0.781287782	1.198359539
ENSG00000213380	COG8 subnetwork	0.776084025	1.198364979
GO:0035304	regulation of protein dephosphorylation	0.795241953	1.198365811
MP:0008908	increased total fat pad weight	0.741454653	1.198369685
GO:0019941	modification-dependent protein catabolic process	0.776255445	1.198370597
GO:0042805	actinin binding	0.741703169	1.19837573
GO:0060323	head morphogenesis	0.781627632	1.198375943
ENSG00000100084	HIRA subnetwork	0.781985988	1.198376793
REACTOME_REGULATION_OF_BE	REACTOME_REGULATION_OF_BETA:CELL_DEVELOPMEN	0.769179457	1.198378005
MP:0000165	abnormal long bone hypertrophic chondrocyte zone	0.761774774	1.198384326
GO:0071277	cellular response to calcium ion	0.746548896	1.198385685

ENSG00000212869	ENSG00000212869 subnetwork	0.746280142	1.198390628
GO:0071320	cellular response to cAMP	0.760259215	1.198391954
REACTOME_TRANSPORT_OF_MA	REACTOME_TRANSPORT_OF_MATURE_MRNA_DERIVED	0.782194103	1.198392838
KEGG_PARKINSONS_DISEASE	KEGG_PARKINSONS_DISEASE	0.794023137	1.19839459
ENSG00000062822	POLD1 subnetwork	0.764541624	1.198395379
GO:0000776	kinetochore	0.763149786	1.198397814
GO:0010660	regulation of muscle cell apoptotic process	0.768835902	1.198398595
ENSG00000113649	TCERG1 subnetwork	0.745462182	1.1984
ENSG00000186432	KPNA4 subnetwork	0.790404825	1.198408502
REACTOME_UNFOLDED_PROTEIN	REACTOME_UNFOLDED_PROTEIN_RESPONSE	0.770008991	1.198411433
ENSG00000114450	GNB4 subnetwork	0.782481984	1.198414277
MP:0005145	increased circulating VLDL cholesterol level	0.763589102	1.198414739
ENSG00000090266	NDUFB2 subnetwork	0.770097792	1.198416915
ENSG00000215699	ENSG00000215699 subnetwork	0.778004009	1.198421385
GO:0043278	response to morphine	0.79493743	1.198421867
GO:0070167	regulation of biomineral tissue development	0.763260859	1.198424775
GO:0033198	response to ATP	0.769883973	1.198427038
ENSG00000134057	CCNB1 subnetwork	0.781500408	1.198428003
GO:0003730	mRNA 3'-UTR binding	0.740696986	1.19842854
REACTOME_FRS2:MEDIATED_CAS	REACTOME_FRS2:MEDIATED_CASCADE	0.759923953	1.198428925
MP:0000784	forebrain hypoplasia	0.730346434	1.19843523
MP:0004374	bowed radius	0.741658144	1.198436123
ENSG00000169564	PCBP1 subnetwork	0.763101886	1.198440514
ENSG00000171634	BPTF subnetwork	0.763897442	1.198442017
ENSG00000167513	CDT1 subnetwork	0.765096511	1.198444516
GO:0005743	mitochondrial inner membrane	0.746116043	1.198450504
GO:0030517	negative regulation of axon extension	0.746219676	1.198450673
ENSG00000168395	ING5 subnetwork	0.782693383	1.198451235
ENSG00000172352	CDY1B subnetwork	0.762306853	1.198455101
GO:0070371	ERK1 and ERK2 cascade	0.763454883	1.198457253
GO:0007030	Golgi organization	0.764645755	1.198465076
ENSG00000090520	DNAJB11 subnetwork	0.729787736	1.198467733
GO:0005871	kinesin complex	0.761746326	1.198475413
GO:0016289	CoA hydrolase activity	0.782414853	1.198476918
GO:0060053	neurofilament cytoskeleton	0.763807661	1.198479332
ENSG00000122512	PMS2 subnetwork	0.781282522	1.198479925
ENSG00000135365	PHF21A subnetwork	0.769972935	1.19848034
ENSG00000125356	NDUFA1 subnetwork	0.730597316	1.198480447
MP:0001688	abnormal somite development	0.782603144	1.19848247
ENSG00000106348	IMPDH1 subnetwork	0.761576644	1.198485825
GO:0005777	peroxisome	0.740655409	1.198489026
KEGG_HYPERTROPHIC_CARDIOM	KEGG_HYPERTROPHIC_CARDIOMYOPATHY_HCM	0.763559076	1.198489555
GO:0048512	circadian behavior	0.777960049	1.198489633
ENSG00000100804	PSMB5 subnetwork	0.769342148	1.198495161
GO:0050892	intestinal absorption	0.761687046	1.198496725
ENSG00000196535	MYO18A subnetwork	0.781981658	1.198497067
GO:0051537	2 iron, 2 sulfur cluster binding	0.763729753	1.198500589
ENSG00000160007	ARHGAP35 subnetwork	0.790399212	1.198501659
GO:0001763	morphogenesis of a branching structure	0.764528471	1.198507543
GO:0046039	GTP metabolic process	0.762409304	1.198508904
GO:0016893	endonuclease activity, active with either ribo- or deoxyri	0.745794503	1.198510079
GO:0070528	protein kinase C signaling cascade	0.760243409	1.198510112
GO:0051452	intracellular pH reduction	0.790133022	1.198511565
ENSG00000134490	TMEM241 subnetwork	0.768756922	1.198515326

ENSG00000125484	GTF3C4 subnetwork	0.745453293	1.198520386
ENSG00000115207	GTF3C2 subnetwork	0.778123183	1.19852152
ENSG00000175137	SH3BP5L subnetwork	0.76883335	1.198526125
GO:0015645	fatty acid ligase activity	0.759910787	1.198530994
ENSG00000197905	TEAD4 subnetwork	0.764887679	1.198534916
MP:0009038	decreased inferior colliculus size	0.794817742	1.198535025
GO:0055078	sodium ion homeostasis	0.765090351	1.198535229
ENSG00000116701	NCF2 subnetwork	0.745631256	1.198537147
ENSG00000144566	RAB5A subnetwork	0.781155204	1.198537276
GO:2000045	regulation of G1/S transition of mitotic cell cycle	0.769871098	1.198538478
GO:0043687	post-translational protein modification	0.781933779	1.198538808
ENSG00000114107	CEP70 subnetwork	0.764464592	1.198539482
ENSG00000154917	RAB6B subnetwork	0.730537928	1.198541737
GO:0006368	transcription elongation from RNA polymerase II promot	0.789623772	1.198541775
ENSG00000213199	ACCN3 subnetwork	0.790329208	1.198542985
GO:0007162	negative regulation of cell adhesion	0.764081983	1.198543897
ENSG00000156113	KCNMA1 subnetwork	0.761535647	1.198544732
GO:0014072	response to isoquinoline alkaloid	0.79493743	1.198545492
ENSG00000100461	RBM23 subnetwork	0.764981177	1.198551112
GO:0002040	sprouting angiogenesis	0.764797868	1.19855615
GO:0016676	oxidoreductase activity, acting on a heme group of dono	0.763084172	1.198563619
ENSG00000117153	KLHL12 subnetwork	0.790085092	1.198578838
ENSG00000007047	MARK4 subnetwork	0.760207691	1.198579882
ENSG00000105404	RABAC1 subnetwork	0.746107308	1.198581754
ENSG00000172288	CDY1 subnetwork	0.762306853	1.198583691
ENSG00000168959	GRM5 subnetwork	0.759795088	1.198584499
ENSG00000058262	SEC61A1 subnetwork	0.781808313	1.198590885
MP:0000929	open neural tube	0.745769954	1.198592089
ENSG00000143393	PI4KB subnetwork	0.730510464	1.198597452
MP:0000743	muscle spasm	0.745936421	1.198597875
ENSG00000069345	DNAJA2 subnetwork	0.768636945	1.19860017
ENSG00000187953	ENSG00000187953 subnetwork	0.781282522	1.198605578
ENSG00000163636	PSMD6 subnetwork	0.789471606	1.198608948
ENSG00000017260	ATP2C1 subnetwork	0.730934047	1.198609405
GO:0000502	proteasome complex	0.789597656	1.198619473
ENSG00000170310	STX8 subnetwork	0.790297762	1.198620618
GO:0042579	microbody	0.740655409	1.198621222
ENSG00000068078	FGFR3 subnetwork	0.778479061	1.198621923
MP:0000248	macrocytosis	0.7644502	1.198624933
ENSG00000102030	NAA10 subnetwork	0.781901972	1.198632935
ENSG00000138413	IDH1 subnetwork	0.74604818	1.198636364
REACTOME_VITAMIN_B5_PANTO	REACTOME_VITAMIN_B5_PANTOTHENATE_METABOLIS	0.768754594	1.198642895
GO:0006119	oxidative phosphorylation	0.745193598	1.198645833
GO:0072507	divalent inorganic cation homeostasis	0.745360935	1.198651611
MP:0000473	abnormal stomach glandular epithelium morphology	0.745452175	1.198651759
GO:0008374	O-acyltransferase activity	0.780759712	1.198651909
GO:0030100	regulation of endocytosis	0.780840201	1.198652051
ENSG00000074266	EED subnetwork	0.73105212	1.198654233
REACTOME_HEXOSE_TRANSPORT	REACTOME_HEXOSE_TRANSPORT	0.781132463	1.198657718
GO:0035255	ionotropic glutamate receptor binding	0.739815445	1.198658348
ENSG00000187098	MITF subnetwork	0.794816532	1.198658688
GO:0001704	formation of primary germ layer	0.740594137	1.19865968
KEGG_PROTEIN_EXPORT	KEGG_PROTEIN_EXPORT	0.759910299	1.198659994
GO:0051540	metal cluster binding	0.730859795	1.198665103

KEGG_MISMATCH_REPAIR	KEGG_MISMATCH_REPAIR	0.76986854	1.198665887
ENSG00000087152	ATXN7L3 subnetwork	0.742268354	1.198668281
GO:0007183	SMAD protein complex assembly	0.740523883	1.198670565
GO:0006887	exocytosis	0.790074134	1.198672061
GO:0051289	protein homotetramerization	0.739307335	1.198673887
GO:0006929	substrate-dependent cell migration	0.762025723	1.198674324
ENSG00000131495	NDUFA2 subnetwork	0.764345084	1.198678155
ENSG00000025293	PHF20 subnetwork	0.76262412	1.198686045
GO:0004129	cytochrome-c oxidase activity	0.763084172	1.19869211
MP:0002734	abnormal mechanical nociception	0.764409155	1.198694349
ENSG00000171345	KRT19 subnetwork	0.762134592	1.198695932
GO:0048753	pigment granule organization	0.790002588	1.198697863
GO:0032413	negative regulation of ion transmembrane transporter activity	0.734086986	1.198698409
MP:0001685	abnormal endoderm development	0.743855192	1.198698517
GO:0042059	negative regulation of epidermal growth factor receptor signaling pathway	0.762301096	1.198701577
REACTOME_RETROGRADE_NEUROTRANSMISSION	REACTOME_RETROGRADE_NEUROTRANSMISSION	0.764289078	1.198704774
ENSG00000140403	DNAJA4 subnetwork	0.759794179	1.198708149
ENSG00000140332	TLE3 subnetwork	0.740468954	1.198709037
ENSG00000177380	PPFIA3 subnetwork	0.733991342	1.19870939
MP:0005108	abnormal ulna morphology	0.769583721	1.198713313
ENSG00000101367	MAPRE1 subnetwork	0.734382832	1.198715525
GO:0015695	organic cation transport	0.745309211	1.198717246
ENSG00000146276	GABRR1 subnetwork	0.762742157	1.198718361
GO:0061061	muscle structure development	0.740384054	1.198719929
ENSG00000130816	DNMT1 subnetwork	0.764242161	1.198720694
ENSG00000213496	ENSG00000213496 subnetwork	0.762931187	1.198723997
GO:0015939	pantothenate metabolic process	0.780732094	1.198725212
ENSG00000185345	PARK2 subnetwork	0.77844706	1.198726986
GO:0051567	histone H3-K9 methylation	0.789469732	1.198728198
ENSG00000088832	FKBP1A subnetwork	0.780634455	1.198730325
REACTOME_TELOMERE_C:STRAND_LAGGING_STRAND	REACTOME_TELOMERE_C:STRAND_LAGGING_STRAND	0.734468847	1.198732347
GO:0010862	positive regulation of pathway-restricted SMAD protein signaling	0.731209448	1.198738135
GO:0008045	motor axon guidance	0.740021192	1.198746964
ENSG00000110245	APOC3 subnetwork	0.769840482	1.198750797
ENSG00000161800	RACGAP1 subnetwork	0.739255109	1.198751105
ENSG00000105819	PMPCB subnetwork	0.739655879	1.198751795
ENSG00000186908	ZDHHC17 subnetwork	0.789956396	1.198754799
GO:0030431	sleep	0.742074727	1.198755918
ENSG00000106366	SERPINE1 subnetwork	0.743710952	1.198758651
ENSG00000166971	AKTIP subnetwork	0.781026881	1.198767569
ENSG00000196501	ENSG00000196501 subnetwork	0.742251094	1.198772702
ENSG00000197956	S100A6 subnetwork	0.788722976	1.198773771
GO:0035066	positive regulation of histone acetylation	0.789843508	1.198775425
GO:0007286	spermatid development	0.745192833	1.198777278
GO:0044257	cellular protein catabolic process	0.739812172	1.19877968
ENSG00000184381	PLA2G6 subnetwork	0.739971898	1.198779949
KEGG_PYRUVATE_METABOLISM	KEGG_PYRUVATE_METABOLISM	0.781127587	1.198783429
ENSG00000135547	HEY2 subnetwork	0.762892268	1.198793566
ENSG00000114054	PCCB subnetwork	0.7326538	1.198796255
ENSG00000198648	STK39 subnetwork	0.743804713	1.198797232
ENSG00000147099	HDAC8 subnetwork	0.734360007	1.198798799
GO:0051536	iron-sulfur cluster binding	0.730859795	1.198799017
GO:0003230	cardiac atrium development	0.759760734	1.198799526
ENSG00000093009	CDC45 subnetwork	0.733965853	1.198803828

ENSG00000115286	NDUFS7 subnetwork	0.742175248	1.198805592
ENSG00000129515	SNX6 subnetwork	0.734899056	1.198810847
ENSG00000153561	RMND5A subnetwork	0.762291291	1.198814123
REACTOME_G_BETAGAMMA_SIG	REACTOME_G_BETAGAMMA_SIGNALING_THROUGH_P	0.759664265	1.198815549
GO:0015002	heme-copper terminal oxidase activity	0.763084172	1.198820628
ENSG00000090054	SPTLC1 subnetwork	0.779270057	1.198822787
GO:0071229	cellular response to acid	0.742028406	1.198827351
GO:0032760	positive regulation of tumor necrosis factor production	0.739193915	1.198828341
ENSG00000111676	ATN1 subnetwork	0.74326898	1.198829284
GO:0050999	regulation of nitric-oxide synthase activity	0.778414769	1.198832071
GO:0070498	interleukin-1-mediated signaling pathway	0.77875366	1.198832562
GO:0008373	sialyltransferase activity	0.739634207	1.198834512
ENSG00000128513	POT1 subnetwork	0.743184831	1.19884015
MP:0009409	abnormal skeletal muscle fiber type ratio	0.740379772	1.198841188
MP:0010363	increased fibrosarcoma incidence	0.788823374	1.198841438
MP:0002753	dilated heart left ventricle	0.743691719	1.198846407
ENSG00000206495	TRIM39 subnetwork	0.789462545	1.198847472
GO:0043568	positive regulation of insulin-like growth factor receptor	0.780632978	1.198850876
GO:0019199	transmembrane receptor protein kinase activity	0.743057616	1.198850891
GO:0048260	positive regulation of receptor-mediated endocytosis	0.759590052	1.198853112
ENSG00000155511	GRIA1 subnetwork	0.779094988	1.198859336
MP:0000872	abnormal cerebellum external granule cell layer morpho	0.733904014	1.198859337
MP:0010099	abnormal thoracic cage shape	0.745157712	1.198859399
ENSG00000164118	CEP44 subnetwork	0.734849785	1.198860731
GO:0051591	response to cAMP	0.778694696	1.198863995
MP:0004568	fusion of glossopharyngeal and vagus nerve	0.732629778	1.19887415
GO:0031941	filamentous actin	0.779851804	1.19887605
ENSG00000215755	ENSG00000215755 subnetwork	0.769840482	1.198878256
ENSG00000173145	NOC3L subnetwork	0.739789709	1.198878949
MP:0004910	decreased seminal vesicle weight	0.780588493	1.198882242
GO:0043632	modification-dependent macromolecule catabolic proce	0.78871246	1.198882769
GO:0006383	transcription from RNA polymerase III promoter	0.742722084	1.198883265
ENSG00000137601	NEK1 subnetwork	0.750046558	1.19888792
GO:0016876	ligase activity, forming aminoacyl-tRNA and related com	0.745075955	1.198892179
MP:0001925	male infertility	0.734326879	1.198893215
REACTOME_TIGHT_JUNCTION_IN	REACTOME_TIGHT_JUNCTION_INTERACTIONS	0.743647785	1.198895726
ENSG00000133216	EPHB2 subnetwork	0.779244625	1.198901503
REACTOME_CALMODULIN_INDUC	REACTOME_CALMODULIN_INDUCED_EVENTS	0.733663825	1.198903484
GO:0003012	muscle system process	0.747369575	1.198906147
GO:0033261	regulation of S phase	0.743578637	1.198906593
ENSG00000106100	NOD1 subnetwork	0.742811358	1.198910891
GO:0034399	nuclear periphery	0.735309723	1.198911232
GO:0006874	cellular calcium ion homeostasis	0.735125912	1.198916546
GO:0060420	regulation of heart growth	0.75953105	1.198939149
ENSG00000152104	PTPN14 subnetwork	0.780535727	1.198939855
ENSG000000008710	PKD1 subnetwork	0.778873188	1.198943107
MP:0002561	abnormal circadian phase	0.73917931	1.198944285
ENSG00000108671	PSMD11 subnetwork	0.733864356	1.198948247
GO:0001569	patterning of blood vessels	0.734809949	1.198949533
GO:0032855	positive regulation of Rac GTPase activity	0.739623573	1.198950392
GO:0010817	regulation of hormone levels	0.749982735	1.198953222
MP:0005307	head tossing	0.733020194	1.198958217
MP:0001784	abnormal fluid regulation	0.779601668	1.19896501
ENSG00000115241	PPM1G subnetwork	0.747331227	1.198966196

GO:0030029	actin filament-based process	0.743180629	1.198966465
ENSG00000155897	ADCY8 subnetwork	0.740374041	1.198967991
GO:0044441	cilium part	0.733142008	1.198969474
GO:0042058	regulation of epidermal growth factor receptor signaling	0.734747767	1.198971651
GO:0043648	dicarboxylic acid metabolic process	0.7430522	1.198971737
ENSG00000206419	ENSG00000206419 subnetwork	0.789462545	1.198971963
ENSG00000185010	F8 subnetwork	0.779392028	1.198975302
GO:0016831	carboxy-lyase activity	0.732608794	1.198979933
REACTOME_TRNA_AMINOACYLA	REACTOME_TRNA_AMINOACYLATION	0.732862677	1.198980274
ENSG00000025770	NCAPH2 subnetwork	0.742709864	1.198982174
ENSG00000182446	NPLOC4 subnetwork	0.779085906	1.198985385
REACTOME_LYSOSOME_VESICLE_	REACTOME_LYSOSOME_VESICLE_BIOGENESIS	0.788999343	1.198987013
GO:0031954	positive regulation of protein autophosphorylation	0.789075519	1.198987118
GO:0008544	epidermis development	0.743465713	1.198988789
ENSG00000135250	SRPK2 subnetwork	0.743534298	1.1989889
ENSG00000157349	DDX19B subnetwork	0.74750826	1.198993766
ENSG00000109220	CHIC2 subnetwork	0.739567081	1.199
MP:0001429	dehydration	0.788088046	1.199001456
MP:0000889	abnormal cerebellar molecular layer	0.779843695	1.199001996
ENSG00000169118	CSNK1G1 subnetwork	0.78048111	1.199002729
ENSG00000185513	L3MBTL1 subnetwork	0.759476913	1.199003662
GO:0016567	protein ubiquitination	0.788712148	1.19900738
GO:0030317	sperm motility	0.779017296	1.199011567
ENSG00000130208	APOC1 subnetwork	0.779742656	1.199012398
GO:0070372	regulation of ERK1 and ERK2 cascade	0.733423383	1.199019935
MP:0000107	abnormal frontal bone morphology	0.733816711	1.199020481
GO:0016875	ligase activity, forming carbon-oxygen bonds	0.745075955	1.199023695
ENSG00000213619	NDUFS3 subnetwork	0.735303085	1.199027778
GO:0009434	microtubule-based flagellum	0.733246057	1.199030857
REACTOME_CAM_PATHWAY	REACTOME_CAM_PATHWAY	0.733663825	1.199036963
MP:0001106	abnormal Schwann cell morphology	0.747298595	1.199037199
GO:0070588	calcium ion transmembrane transport	0.739068738	1.199038036
GO:0006200	ATP catabolic process	0.743027825	1.199048614
GO:0033032	regulation of myeloid cell apoptotic process	0.779571624	1.19904897
GO:0016538	cyclin-dependent protein kinase regulator activity	0.780240111	1.19905492
ENSG00000164930	FZD6 subnetwork	0.747209771	1.199058978
GO:0010460	positive regulation of heart rate	0.733568492	1.199064692
GO:0007178	transmembrane receptor protein serine/threonine kinas	0.739171729	1.199065782
ENSG00000182054	IDH2 subnetwork	0.73150012	1.199067664
ENSG00000071564	TCF3 subnetwork	0.742952326	1.199070509
MP:0001004	abnormal retinal photoreceptor morphology	0.740355157	1.199072745
ENSG00000198868	ENSG00000198868 subnetwork	0.749975682	1.199078517
GO:0045259	proton-transporting ATP synthase complex	0.759438932	1.199084348
GO:0032787	monocarboxylic acid metabolic process	0.742682143	1.199086607
MP:0000109	abnormal parietal bone morphology	0.780454991	1.199086614
ENSG00000185324	CDK10 subnetwork	0.739027448	1.199087692
GO:0006937	regulation of muscle contraction	0.78938199	1.199091192
REACTOME_PROCESSIVE_SYNTHE	REACTOME_PROCESSIVE_SYNTHESIS_ON_THE_LAGGING	0.733018261	1.199091821
ENSG00000204599	TRIM39 subnetwork	0.789462545	1.199096479
GO:0043297	apical junction assembly	0.733392009	1.199097795
ENSG00000024048	UBR2 subnetwork	0.732605121	1.199102464
KEGG_RENIN_ANGIOTENSIN_SYS	KEGG_RENIN_ANGIOTENSIN_SYSTEM	0.733522372	1.199103563
ENSG00000107295	SH3GL2 subnetwork	0.734745095	1.199104959
GO:0006677	glycosylceramide metabolic process	0.789274688	1.199106679

GO:0006829	zinc ion transport	0.780398872	1.199112768
GO:0060525	prostate glandular acinus development	0.788700257	1.199121622
KEGG_BETA_ALANINE_METABOLISM	KEGG_BETA_ALANINE_METABOLISM	0.788608166	1.199142322
GO:0070830	tight junction assembly	0.732559127	1.199146967
ENSG00000099194	SCD subnetwork	0.780145214	1.199149249
GO:0004812	aminoacyl-tRNA ligase activity	0.745075955	1.199155239
ENSG00000165264	NDUFB6 subnetwork	0.747692196	1.19917979
GO:0046474	glycerophospholipid biosynthetic process	0.780232599	1.199180844
ENSG00000179603	GRM8 subnetwork	0.738997598	1.199187127
ENSG00000111432	FZD10 subnetwork	0.747209771	1.199190195
GO:0009127	purine nucleoside monophosphate biosynthetic process	0.735864655	1.199200444
MP:0008006	increased stomach pH	0.737483076	1.199202128
ENSG00000169018	FEM1B subnetwork	0.73593424	1.199206085
GO:0072531	pyrimidine-containing compound transmembrane transport	0.736739203	1.199206877
ENSG00000198840	MT-ND3 subnetwork	0.749975682	1.199209292
GO:0015144	carbohydrate transmembrane transporter activity	0.731750266	1.199212994
GO:0016072	rRNA metabolic process	0.759434687	1.199213532
REACTOME_ROLE_OF_SECOND_MESSENGERS_IN_NETWORK	REACTOME_ROLE_OF_SECOND_MESSENGERS_IN_NETWORK	0.737639468	1.199230002
ENSG00000196353	CPNE4 subnetwork	0.745038083	1.199231951
GO:0030659	cytoplasmic vesicle membrane	0.731855957	1.199235406
ENSG00000160948	VPS28 subnetwork	0.759393023	1.199240384
ENSG00000183495	EP400 subnetwork	0.731940148	1.199246652
ENSG00000119013	NDUFB3 subnetwork	0.788305893	1.19925117
ENSG00000182199	SHMT2 subnetwork	0.731675633	1.199251982
ENSG00000171497	PPIID subnetwork	0.744361503	1.199258731
GO:0046131	pyrimidine ribonucleoside metabolic process	0.744946141	1.1992593
GO:0045187	regulation of circadian sleep/wake cycle, sleep	0.737336589	1.199262913
GO:0015949	nucleobase-containing small molecule interconversion	0.788607625	1.199266999
MP:0000474	abnormal foregut morphology	0.759344633	1.199267241
MP:0000940	abnormal motor neuron innervation	0.744450688	1.199269792
MP:0000005	increased brown adipose tissue amount	0.732558026	1.199280696
MP:0009417	skeletal muscle atrophy	0.737436934	1.19928516
GO:0046716	muscle cell homeostasis	0.737601753	1.199301939
GO:0009148	pyrimidine nucleoside triphosphate biosynthetic process	0.73898342	1.199303174
REACTOME_SYNTHESIS_OF_VERY_LONG_CHAIN_FATTY_ACIDS	REACTOME_SYNTHESIS_OF_VERY_LONG_CHAIN_FATTY_ACIDS	0.736706249	1.199312181
KEGG_DRUG_METABOLISM_OTHER_ENZYMES	KEGG_DRUG_METABOLISM_OTHER_ENZYMES	0.737797543	1.199313172
GO:0035338	long-chain fatty-acyl-CoA biosynthetic process	0.788545638	1.199313715
GO:0003014	renal system process	0.737899765	1.199318786
ENSG00000125485	DDX31 subnetwork	0.744888177	1.199319579
GO:0046434	organophosphate catabolic process	0.736230246	1.199322824
GO:0030502	negative regulation of bone mineralization	0.744820282	1.19933048
GO:0009168	purine ribonucleoside monophosphate biosynthetic process	0.735864655	1.199333629
GO:0031526	brush border membrane	0.738888857	1.199336283
ENSG00000212871	ENSG00000212871 subnetwork	0.749975682	1.199340096
ENSG00000184752	NDUFA12 subnetwork	0.738773054	1.199341741
ENSG00000085978	ATG16L1 subnetwork	0.735796655	1.199344663
GO:0048232	male gamete generation	0.738182538	1.199346695
GO:0015804	neutral amino acid transport	0.7370858	1.199362386
GO:0004089	carbonate dehydratase activity	0.737155282	1.199373545
ENSG00000186832	KRT16 subnetwork	0.74475789	1.199374314
GO:0006024	glycosaminoglycan biosynthetic process	0.759326985	1.199374933
ENSG00000127831	VIL1 subnetwork	0.736168027	1.199383813
ENSG00000138834	MAPK8IP3 subnetwork	0.738491669	1.199391256
MP:0000936	small telencephalic vesicles	0.73237355	1.199392012

GO:0042749	regulation of circadian sleep/wake cycle	0.737336589	1.199395854
GO:0051569	regulation of histone H3-K4 methylation	0.73229768	1.199414259
GO:0042776	mitochondrial ATP synthesis coupled proton transport	0.732558007	1.199414455
GO:0009086	methionine biosynthetic process	0.737024488	1.199423312
ENSG00000114841	DNAH1 subnetwork	0.732141174	1.199425287
GO:0031252	cell leading edge	0.736701194	1.199434151
GO:0072659	protein localization in plasma membrane	0.736939614	1.199434339
GO:0035336	long-chain fatty-acyl-CoA metabolic process	0.788545638	1.199438436
MP:0008225	abnormal anterior commissure morphology	0.759306721	1.19946648
GO:0010744	positive regulation of macrophage derived foam cell diff	0.737283699	1.199467849
ENSG00000107242	PIP5K1B subnetwork	0.73225585	1.199469984
ENSG00000212872	ENSG00000212872 subnetwork	0.749975682	1.199470928
GO:0055069	zinc ion homeostasis	0.738461899	1.199474209
GO:0045923	positive regulation of fatty acid metabolic process	0.738694699	1.199474383
GO:0030169	low-density lipoprotein particle binding	0.738769805	1.199474441
ENSG00000124172	ATP5E subnetwork	0.748069937	1.19947518
ENSG00000185920	PTCH1 subnetwork	0.735795491	1.199477894
GO:0007283	spermatogenesis	0.738182538	1.199479513
GO:0060767	epithelial cell proliferation involved in prostate gland dev	0.73657343	1.199489513
MP:0002151	abnormal neural tube morphology/development	0.74474513	1.199495005
ENSG00000105655	ISYNA1 subnetwork	0.744674987	1.199516908
GO:0001533	cornified envelope	0.736437954	1.19951715
GO:0008175	tRNA methyltransferase activity	0.732537155	1.199520357
MP:0003974	abnormal endocardium morphology	0.736676238	1.199528407
MP:0004686	decreased length of long bones	0.738317942	1.199546058
GO:0043218	compact myelin	0.736540218	1.199550499
REACTOME_PURINE_METABOLISM	REACTOME_PURINE_METABOLISM	0.759273928	1.199558047
ENSG00000070193	FGF10 subnetwork	0.748039052	1.19956807
ENSG00000170248	PDCD6IP subnetwork	0.749968171	1.199579969
ENSG00000111241	FGF6 subnetwork	0.759159468	1.199584906
ENSG00000167774	NDUFA7 subnetwork	0.738684421	1.199584993
GO:0060512	prostate gland morphogenesis	0.738169324	1.199590209
GO:0006882	cellular zinc ion homeostasis	0.738461899	1.199606997
GO:0010288	response to lead ion	0.749930484	1.199618112
GO:0009451	RNA modification	0.74828851	1.199628293
GO:0022617	extracellular matrix disassembly	0.750676481	1.199645738
GO:0016601	Rac protein signal transduction	0.759264278	1.199660414
MP:0004734	small thoracic cavity	0.750575044	1.199672953
ENSG00000134025	ENSG00000134025 subnetwork	0.75417116	1.199674479
GO:0017046	peptide hormone binding	0.74986019	1.199678088
GO:0031648	protein destabilization	0.749766462	1.199694423
ENSG00000187514	PTMA subnetwork	0.754396868	1.199701671
MP:0001674	abnormal triploblastic development	0.75428768	1.199707063
ENSG00000107831	FGF8 subnetwork	0.759159468	1.199714255
GO:0050962	detection of light stimulus involved in sensory perception	0.748724029	1.19973227
GO:0001510	RNA methylation	0.754526159	1.199734244
REACTOME_FGFR2_LIGAND_BINDING	REACTOME_FGFR2_LIGAND_BINDING_AND_ACTIVATION	0.752953823	1.19976087
GO:0007088	regulation of mitosis	0.753460039	1.19978275
ENSG00000148498	PARD3 subnetwork	0.754166903	1.19979924
ENSG00000088986	DYNLL1 subnetwork	0.748610468	1.199814187
GO:0045022	early endosome to late endosome transport	0.749224846	1.19981979
ENSG00000186184	POLR1D subnetwork	0.749763927	1.199819908
GO:0008137	NADH dehydrogenase (ubiquinone) activity	0.752915515	1.199831503
GO:0009132	nucleoside diphosphate metabolic process	0.754128586	1.199831778

GO:0050820	positive regulation of coagulation	0.749172891	1.199836155
ENSG00000205542	TMSB4X subnetwork	0.753557798	1.19983708
ENSG00000158815	FGF17 subnetwork	0.759159468	1.199843632
REACTOME_RECYCLING_PATHWAY_OF_L1	REACTOME_RECYCLING_PATHWAY_OF_L1	0.753311982	1.199847892
GO:0050908	detection of light stimulus involved in visual perception	0.748724029	1.199863388
MP:0004936	impaired branching involved in ureteric bud morphogenesis	0.753164533	1.199869594
GO:0043507	positive regulation of JUN kinase activity	0.749648911	1.199885371
GO:0000387	spliceosomal snRNP assembly	0.751189643	1.199885596
GO:0015931	nucleobase-containing compound transport	0.749744732	1.199890842
REACTOME_GOLGI_ASSOCIATED_VESICLE_BIOGENESIS	REACTOME_GOLGI_ASSOCIATED_VESICLE_BIOGENESIS	0.751268753	1.199896503
ENSG00000142798	HSPG2 subnetwork	0.748581189	1.199901618
MP:0006113	abnormal heart septum morphology	0.748954994	1.199901661
GO:0051783	regulation of nuclear division	0.753460039	1.199913091
ENSG00000067177	PHKA1 subnetwork	0.753131502	1.199923921
MP:0001663	abnormal digestive system physiology	0.749129046	1.199928993
MP:0009283	decreased gonadal fat pad weight	0.75142104	1.199956427
GO:0016408	C-acyltransferase activity	0.754109457	1.199956583
MP:0001672	abnormal embryogenesis/ development	0.749067335	1.199961761
GO:0003954	NADH dehydrogenase activity	0.752915515	1.199961948
GO:0006090	pyruvate metabolic process	0.752680382	1.199972811
ENSG00000162344	FGF19 subnetwork	0.759159468	1.199973037
GO:0007346	regulation of mitotic cell cycle	0.753309739	1.199978268
ENSG00000158874	APOA2 subnetwork	0.749553346	1.199983621
ENSG00000145332	KLHL8 subnetwork	0.750948338	1.199983651
GO:0007205	protein kinase C-activating G-protein coupled receptor signaling	0.749639009	1.199989082
GO:0048485	sympathetic nervous system development	0.753906026	1.199994571
GO:0030296	protein tyrosine kinase activator activity	0.751175853	1.200005448
ENSG00000124171	PARD6B subnetwork	0.751075877	1.200005449
ENSG00000101421	CHMP4B subnetwork	0.753990548	1.200021713
GO:0051131	chaperone-mediated protein complex assembly	0.753773388	1.20004344
ENSG00000198959	TGM2 subnetwork	0.74951394	1.200049143
MP:0000074	abnormal neurocranium morphology	0.754086876	1.200054277
GO:0050136	NADH dehydrogenase (quinone) activity	0.752915515	1.200092421
GO:0016747	transferase activity, transferring acyl groups other than ester bonds	0.75266614	1.200092452
ENSG00000156427	FGF18 subnetwork	0.759159468	1.20010247
ENSG00000075643	MOCOS subnetwork	0.752594986	1.200119656
GO:0006776	vitamin A metabolic process	0.753905544	1.200124878
GO:0060742	epithelial cell differentiation involved in prostate gland development	0.752843691	1.200130492
GO:0050911	detection of chemical stimulus involved in sensory perception	0.75222276	1.200212233
MP:0002109	abnormal limb morphology	0.752582658	1.20022846
ENSG00000070388	FGF22 subnetwork	0.759159468	1.200231931
GO:0071357	cellular response to type I interferon	0.758960253	1.200231981
MP:0002106	abnormal muscle physiology	0.751847297	1.200239573
GO:0051378	serotonin binding	0.75232426	1.200244858
GO:0000209	protein polyubiquitination	0.751902585	1.200244991
GO:0050795	regulation of behavior	0.756303664	1.200249026
GO:0048557	embryonic digestive tract morphogenesis	0.751761579	1.20025049
ENSG00000152208	GRID2 subnetwork	0.754968893	1.200265727
REACTOME_ACTIVATION_OF_CHAPERONES_BY_ATF6	REACTOME_ACTIVATION_OF_CHAPERONES_BY_ATF6	0.752175938	1.200277566
ENSG00000160999	SH2B2 subnetwork	0.752088222	1.200293926
REACTOME_P53_DEPENDENT_G1S_DNA_DAMAGE_CHECKPOINT	REACTOME_P53_DEPENDENT_G1S_DNA_DAMAGE_CHECKPOINT	0.758870107	1.20030218
GO:0006301	postreplication repair	0.752453793	1.20031012
ENSG00000161057	PSMC2 subnetwork	0.759124541	1.20032366
MP:0004617	sacral vertebral transformation	0.752566017	1.200331846

GO:0030307	positive regulation of cell growth	0.756108729	1.200341168
ENSG00000065054	SLC9A3R2 subnetwork	0.756281853	1.200346508
KEGG_PROANOATE_METABOLIS	KEGG_PROANOATE_METABOLISM	0.751747914	1.200359438
GO:0060337	type I interferon-mediated signaling pathway	0.758960253	1.200361498
GO:0000792	heterochromatin	0.752087323	1.200424605
REACTOME_P53:DEPENDENT_G1	REACTOME_P53:DEPENDENT_G1_DNA_DAMAGE_RESP	0.758870107	1.200431732
ENSG00000130396	MLLT4 subnetwork	0.756259838	1.200444011
ENSG00000124222	STX16 subnetwork	0.75610341	1.200460355
GO:0048871	multicellular organismal homeostasis	0.756044573	1.200487488
MP:0010454	abnormal truncus arteriosus septation	0.755637041	1.200487752
GO:0019843	rRNA binding	0.758840292	1.200528929
ENSG00000107262	BAG1 subnetwork	0.756711837	1.200562892
ENSG00000109390	NDUFC1 subnetwork	0.756024665	1.200579632
GO:0005791	rough endoplasmic reticulum	0.755607464	1.200585366
ENSG00000212876	ENSG00000212876 subnetwork	0.758818464	1.200609954
ENSG00000121481	RNF2 subnetwork	0.755275293	1.200618154
ENSG00000163082	SGPP2 subnetwork	0.758482122	1.200626418
ENSG00000160194	NDUFV3 subnetwork	0.756684998	1.200660388
GO:0090305	nucleic acid phosphodiester bond hydrolysis	0.756016118	1.200688049
ENSG00000124635	HIST1H2BJ subnetwork	0.755946764	1.20069896
GO:0016540	protein autoprocessing	0.755864378	1.200699035
GO:0043236	laminin binding	0.756914982	1.200703539
ENSG00000197597	ENSG00000197597 subnetwork	0.758352788	1.200707573
ENSG00000170906	NDUFA3 subnetwork	0.755602545	1.200715525
ENSG00000100038	TOP3B subnetwork	0.757040467	1.200735931
ENSG00000198763	MT-ND2 subnetwork	0.758818464	1.200739581
GO:0009081	branched chain family amino acid metabolic process	0.758463373	1.200739901
ENSG00000143344	RGL1 subnetwork	0.757204535	1.200752002
ENSG00000115350	POLE4 subnetwork	0.755463157	1.200764476
ENSG00000114026	OGG1 subnetwork	0.758722963	1.200766656
GO:0016811	hydrolase activity, acting on carbon-nitrogen (but not pe	0.758667422	1.200782937
GO:0006041	glucosamine metabolic process	0.758331556	1.200810285
GO:0071565	nBAF complex	0.755582213	1.200818606
REACTOME_RNA_POLYMERASE_I	REACTOME_RNA_POLYMERASE_I_TRANSCRIPTION_TERI	0.757200747	1.200881939
GO:0006044	N-acetylglucosamine metabolic process	0.758331556	1.200940032
ENSG00000198744	ENSG00000198744 subnetwork	0.757554247	1.200957274
GO:0004521	endoribonuclease activity	0.758277033	1.200994165
MP:0003050	abnormal sacral vertebrae morphology	0.75751933	1.201027694
ENSG00000131828	PDHA1 subnetwork	0.757479827	1.20107649
GO:0009566	fertilization	0.758263164	1.201096942
ENSG00000125755	SYMPK subnetwork	0.758210425	1.20109706
ENSG00000196374	HIST1H2BM subnetwork	0.758198616	1.20121068
GO:2000602	regulation of interphase of mitotic cell cycle	0.758113225	1.201227027
ENSG00000146701	MDH2 subnetwork	0.758109791	1.201356903
REACTOME_CYTOSOLIC_TRNA_A	REACTOME_CYTOSOLIC_TRNA_AMINOACYLATION	0.757879303	1.201368159
ENSG00000182195	LDOC1 subnetwork	0.758083274	1.201411116
ENSG00000132849	INADL subnetwork	0.758073418	1.201514005

Function of mapped genes at autoimmune disease associated loci with evidence for association to allergy and heterogeneity between self reported allergy and sensitization

Chr:BP	Gene	Traits\$	Direction£	Allergy Locus\$	Function	References (PUBMEDID)	Meta-analysis	Fixed effects meta-analysis			Random effects meta-analysis		Self reported allergy			Sensitization		
							Effect	SE	P	Het P	SE	P	Effect	SE	P	Effect	SE	P
11:75976842	C11ORF30	CrD, <u>IBD</u> , UC	Same	Yes\$	Repress transcription, possibly via its interaction with a multiprotein chromatin remodeling complex that modifies the chromatin		0.12	0.01	2.1E-25	5.2E-03	0.04	5.4E-04	0.10	0.01	2.1E-17	0.18	0.03	1.6E-12
3:189595248	LPP	<u>CeD</u>	Opposite	Yes\$	Cell signalling		-0.07	0.01	2.9E-09	0.14	0.02	2.5E-04	-0.06	0.01	1.1E-06	-0.10	0.03	7.8E-05
2:198605140	PLCL1	<u>CrD</u> , IBD, UC	Same	Yes\$	Signal transduction, negative regulation (of bone formation)		0.06	0.01	9.5E-09	0.19	0.02	6.1E-04	0.07	0.01	2.9E-09	0.03	0.03	1.7E-01
6:31444079	HLA-B	A, <u>AS</u> , CrD, GD, IBD, P, SLE, SS, UC	na	Yes\$	Cell surface antigen (MHC class I) presenting peptides		-0.07	0.01	2.6E-08	0.40	0.01	1.1E-08	-0.07	0.01	1.8E-06	-0.10	0.03	1.1E-03
15:65229650	SMAD3	<u>CrD</u> , IBD	Same	Yes\$	Affects TGFbeta pathway involved in Th17 and Treg responses	22913656	0.07	0.01	3.4E-08	0.19	0.02	7.6E-04	0.08	0.01	1.1E-08	0.04	0.03	1.8E-01
17:35175785	IKZF3	CrD, <u>IBD</u> , PBC, T1D, UC	Opposite	Yes	Many genes in window, proliferation and differentiation of lymphocytes		-0.06	0.01	8.5E-07	0.83	0.01	3.8E-07	-0.06	0.01	2.1E-06	-0.05	0.03	6.8E-02
8:128884211	MYC\$	<u>MS</u>	Opposite	Yes\$	Transcription factor involved in the TGFbeta pathway - corepressor	16064138	0.06	0.01	1.0E-06	8.6E-04	0.05	8.5E-02	0.04	0.01	2.8E-03	0.15	0.03	1.8E-07
12:110368991	SH2B3	A, CeD, <u>T1D</u>	Opposite	Novel	Key negative regulator of cytokine signaling and involved in Jak-Stat signaling		-0.06	0.01	1.5E-06	0.08	0.03	8.8E-03	-0.05	0.01	2.7E-04	-0.10	0.03	1.6E-04
13:41950880	AKAP11	<u>CrD</u> , IBD	Same	Novel	Key regulator of protein kinase A	15494034	-0.05	0.01	6.8E-05	0.85	0.01	4.1E-05	-0.05	0.01	3.2E-04	-0.05	0.03	4.8E-02
16:11087374	CLEC16A	CeD, CrD, IBS, MS, P, PBC, <u>T1D</u>	Same	Yes\$	Unknown function, but exclusively expressed in immune cells, perhaps a glycan-binding receptor	17632545	0.05	0.01	6.9E-05	0.09	0.02	1.4E-01	0.06	0.01	7.3E-06	0.01	0.03	8.1E-01
9:135139050	ABO	<u>GD</u>	na	Novel	Glycosyltransferase involved in modification of blood type antigens (ABO), Cell surface proteins related to the ABO blood groups		-0.05	0.01	7.6E-05	0.29	0.01	6.6E-04	-0.05	0.01	3.2E-05	-0.02	0.03	4.1E-01
12:110971201	C12ORF30	<u>T1D</u>	Opposite	Novel	This gene encodes the auxiliary subunit of the heteromeric N-terminal acetyltransferase B complex. Acetylation of methionine.		0.05	0.01	9.1E-05	0.15	0.02	1.0E-02	0.04	0.01	2.8E-03	0.08	0.03	2.3E-03
4:103770651	NFKB1	IBD, <u>PBC</u> , UC	Opposite	Novel	Major transcription factor for activation of inflammation, immunity, differentiation, cell growth, tumorigenesis and apoptosis. Encodes the p50 subunit.		0.04	0.01	1.2E-04	0.70	0.01	7.8E-05	0.04	0.01	7.8E-04	0.05	0.03	3.4E-02
1:165678008	CD247	A, CeD, SC	na	Novel	CD3 zeta chain involved in TCR assembly and activation. Low expression of the zeta chain results in impaired immune response.		0.04	0.01	2.3E-04	0.61	0.01	1.4E-04	0.05	0.01	2.6E-04	0.03	0.03	2.4E-01
14:67823346	RAD51L1	<u>PBC</u>	Opposite	Novel	DNA repair. Involved in cell-cycle and has been shown related to different cancer types		-0.04	0.01	3.3E-04	0.02	0.04	8.6E-02	-0.03	0.01	2.6E-02	-0.10	0.03	1.7E-04
22:39761288	EP300	<u>CrD</u> , IBD	Same	Novel	Encodes p300. Transcriptional co-activator binding to CREB in the NFKB pathway	24338025	0.05	0.01	3.6E-04	0.86	0.01	2.4E-04	0.04	0.01	1.3E-03	0.05	0.03	7.4E-02
1:150068304	RORC	<u>IBD</u>	Same	Novel	Involved in the cell differentiation of Th17 cells		-0.06	0.02	4.7E-04	0.74	0.02	3.2E-04	-0.05	0.02	1.9E-03	-0.07	0.04	6.6E-02
10:6109567	IL2RA, IL15RA	A, CrD, IBD, MS, <u>T1D</u>	Same	Yes\$	Subunit of the IL2 receptor, can also be secreted as a soluble form (due to extracellular proteolysis)		0.06	0.02	4.9E-04	1.00	0.02	3.2E-04	0.06	0.02	9.5E-04	0.07	0.05	1.6E-01
21:39387404	PSMG1	AS, <u>IBD</u> , UC	Opposite	Novel	Proteasome 20S subunit	16251969	0.05	0.01	4.5E-04	0.31	0.01	5.8E-04	0.04	0.01	3.8E-03	0.08	0.03	1.8E-02

12:46494635	HDAC7, VDR	IBD	Opposite	Novel	Histone deacetylase 7 (interacts eg with IKZF1), Vitamin D receptor with possible effects on many immune cells	24761763	0.04	0.01	6.0E-04	0.46	0.01	4.3E-04	0.04	0.01	4.7E-03	0.06	0.03	2.6E-02
6:33168096	HLA-DPB2	GD , SS	Opposite	Novel	Pseudogene, lncRNA gene		-0.13	0.04	6.6E-04	0.31	0.04	8.2E-04	-0.15	0.04	2.8E-04	-0.05	0.09	5.7E-01
6:91014952	BACH2	CeD, CrD, IBD, MS, T1D	Opposite	Yes\$\$\$	B-cell specific transcriptional regulator		0.04	0.01	6.7E-04	0.04	0.03	7.3E-02	0.03	0.01	2.7E-02	0.09	0.03	6.8E-04
6:138048197	TNFAIP3	A, CeD, IBD , MS, P, SLE, UC	Opposite	Novel	Ubiquitin-editing enzyme. Terminating NFKB activity. Controls suppression of inflammation (via activation of ubiquitin-protein ligase). Involved in RIG-1 regulation		-0.05	0.01	8.2E-04	0.32	0.01	6.8E-04	-0.04	0.02	8.3E-03	-0.07	0.03	1.6E-02
5:141493388	NDFIP1	CrD, IBD	Same	Yes\$\$\$		23087404	-0.04	0.01	8.7E-04	0.05	0.03	3.6E-01	-0.05	0.01	6.5E-05	0.01	0.03	7.8E-01
1:10275699	KIF1B	MS	Opposite	Novel	Intracellular transport of organelles	15501445	0.04	0.01	1.2E-03	0.50	0.01	8.2E-04	0.04	0.01	9.5E-04	0.02	0.03	3.9E-01
11:63864311	RP56KA4	CrD, IBD, PBC, S	na	Novel	Limits pro-inflammation. Transcriptional co-activator binding to CREB in the NFKB pathway		0.04	0.01	2.3E-03	0.24	0.02	1.2E-02	0.03	0.01	2.4E-02	0.07	0.03	1.4E-02
12:54768447	PA2G4	T1D	Same	Novel	Co-repressor of androgen receptor. RNA binding protein regulating different genes incl. HLA-DRA, HLA-DRB1 and HLA-DQA1 expression	21624892	0.04	0.01	2.3E-03	0.21	0.02	2.0E-02	0.03	0.01	2.2E-02	0.07	0.03	1.4E-02
2:43660422	THADA	CrD , IBD	Same	Novel	Possibly involved in death receptor pathway (altered apoptosis rate)		0.05	0.02	3.3E-03	0.55	0.02	2.5E-03	0.05	0.02	1.3E-02	0.07	0.04	6.8E-02
3:32990473	GLB1	CeD	Same	Novel	Encodes beta-galactosidase-1 in ganglioside GM1 (removes b-galactose). GM1 is an innate immune regulator.		-0.03	0.01	4.7E-03	0.08	0.03	8.7E-02	-0.02	0.01	6.0E-02	-0.08	0.03	5.0E-03

*As reported by Bønnelykke et al.

\$: Reported traits associated with locus A: Arthritis, AS: Ankylosing Spondylitis, CeD: Celiac Disease, CrD: Crohn's Disease, GD: Graves Disease, IBD: Inflammatory Bowel

\$: Index disease used in the comparison of effect direction marked by bold and underlined

E: As compared to index autoimmune disease-SNP effect direction. Na: Some diseases have not reported the effect allele

\$: Known associated to allergy from Hinds et al, and Bønnelykke et al. (PMID: 23817569 & 23817571)

\$\$ Suggestive association to asthma with hayfever reported by Ferreira et al. (PMID:24388013)

\$\$\$ Suggestive association to asthma reported by Ferreira et al. (PMID: 21907864)

€: Suggestive in current meta-analysis

The 290 autoimmune disease associated loci and relationship to allergy

Chr:Bp	SNP	MAF*	BETA	P	Het.P	Autoimmune disease paper	
						PMID	Traits for each PMID
11:75976842	rs2155219[T]	0.4656	0.1177	2.107E-25	0.005227	21297633,23	Inflammatory bowel disease,Ulcerative colitis,Crohn's disease,Crohn's disease
3:189595248	rs1464510[A]	0.4824	-0.0688	2.874E-09	0.1418	18311140,20	Celiac disease,Celiac disease
2:198605140	rs6738825[A]	0.4819	0.0643	9.472E-09	0.1902	21102463,23	Crohn's disease,Ulcerative colitis
6:31444079	rs7743761[A]	0.2613	-0.0732	2.605E-08	0.3985	20062062,18	Ankylosing spondylitis,Psoriasis,Psoriasis,Ankylosing spondylitis,Psoriasis,Psoriasis,Myasthenia gravis ,Psoriatic arthritis,Ulcerative colitis,Graves' disease,S
15:65229650	rs17293632[T]	0.2695	0.0722	3.39E-08	0.1911	23128233,21	Crohn's disease,Inflammatory bowel disease
17:35175785	rs12946510[A]	0.4948	-0.0564	8.502E-07	0.8262	23128233,19	Inflammatory bowel disease,Type 1 diabetes,Crohn's disease,Crohn's disease,Ulcerative colitis,Primary biliary cirrhosis,Primary biliary cirrhosis,Ulcerative
8:128884211	rs4410871[T]	0.2756	0.0621	9.973E-07	0.000863	21833088	Multiple sclerosis
12:110368991	rs3184504[T]	0.4541	-0.0555	1.457E-06	0.07481	19430480,21	Type 1 diabetes autoantibodies,Type 1 diabetes,Celiac disease and Rheumatoid arthritis,Celiac disease,Type 1 diabetes
13:41950880	rs2062305[A]	0.4279	-0.0468	0.00006792	0.8473	21102463	Crohn's disease
16:11087374	rs12708716[A]	0.3526	0.047	0.00006862	0.08552	17554260,18	Type 1 diabetes autoantibodies,Type 1 diabetes,Type 1 diabetes,Type 1 diabetes,Multiple sclerosis,Inflammatory bowel disease,Crohn's disease and psori
9:135139050	rs505922[T]	0.3651	-0.0475	0.00007643	0.2859	23612905	Graves' disease
12:110971201	rs17696736[A]	0.4192	0.0453	0.00009085	0.1477	17554260,17	Type 1 diabetes,Type 1 diabetes,Type 1 diabetes
4:103770651	rs7665090[A]	0.4923	0.0443	0.0001218	0.6961	21399635,23	Primary biliary cirrhosis,Ulcerative colitis
1:165678008	rs864537[A]	0.381	0.0431	0.0002317	0.6093	21383967,20	Celiac disease and Rheumatoid arthritis,Systemic sclerosis
14:67823346	rs911263[T]	0.2912	-0.0448	0.0003329	0.01792	21399635	Primary biliary cirrhosis
22:39761288	rs4820425[A]	0.2927	0.0451	0.0003634	0.864	22936669	Crohn's disease
21:39387404	rs2836878[A]	0.2621	0.0462	0.0004479	0.3133	21297633,18	Inflammatory bowel disease,Inflammatory bowel disease,Ulcerative colitis,Ankylosing spondylitis,Ankylosing spondylitis
1:150068304	rs4806404[A]	0.1443	-0.0564	0.0004665	0.7356	23128233	Inflammatory bowel disease
10:6109567	rs12722495[A]	0.1183	0.0648	0.0004902	0.9971	21829393,21	Type 1 diabetes autoantibodies,Multiple sclerosis,Type 1 diabetes,Rheumatoid arthritis,Multiple sclerosis,Inflammatory bowel disease,Crohn's disease,Mu
12:46494635	rs11168249[T]	0.4785	0.0396	0.0006015	0.4641	23128233	Inflammatory bowel disease
6:33168096	rs2281388[A]	0.0216	-0.1305	0.0006586	0.3146	21841780,21	Graves' disease,Systemic sclerosis
6:91014952	rs11755527[C]	0.4238	0.0394	0.0006667	0.03903	18978792,21	Type 1 diabetes autoantibodies,Type 1 diabetes,Crohn's disease,Inflammatory bowel disease,Celiac disease,Multiple sclerosis
6:138048197	rs6920220[A]	0.2187	-0.0466	0.0008211	0.3216	21297633,18	Inflammatory bowel disease,Rheumatoid arthritis,Rheumatoid arthritis,Ulcerative colitis,Celiac disease,Systemic lupus erythematosus,Systemic lupus eryt
5:141493388	rs6863411[A]	0.3667	-0.0391	0.0008655	0.04932	23128233,21	Inflammatory bowel disease,Crohn's disease
1:10275699	rs10492972[T]	0.3382	0.0392	0.001218	0.5009	18997785	Multiple sclerosis
11:63864311	rs479777[A]	0.3563	0.0381	0.002309	0.2402	22837380,23	Sarcoidosis,Inflammatory bowel disease,Primary biliary cirrhosis,Crohn's disease
12:54768447	rs2292239[T]	0.317	0.0371	0.00234	0.214	17554260,18	Type 1 diabetes autoantibodies,Type 1 diabetes,Type 1 diabetes,Type 1 diabetes,Type 1 diabetes autoantibodies,Type 1 diabetes,Type 1 diabetes
2:43660422	rs10495903[T]	0.123	0.0505	0.00325	0.5529	23128233,21	Crohn's disease,Inflammatory bowel disease
3:32990473	rs13314993[T]	0.4339	-0.0332	0.00469	0.08012	20190752	Celiac disease
7:28147081	rs864745[T]	0.4982	0.0314	0.006176	0.4767	23128233	Crohn's disease
2:61040333	rs7608910[A]	0.3767	-0.0322	0.006316	0.7635	21297633,23	Inflammatory bowel disease,Ulcerative colitis,Celiac disease,Crohn's disease,Ulcerative colitis,Psoriatic arthritis,Rheumatoid arthritis,Crohn's disease and i
11:61320875	rs4246215[T]	0.3858	-0.0324	0.007264	0.5014	23128233,21	Inflammatory bowel disease,Crohn's disease
6:128287458	rs13204742[T]	0.1303	-0.0441	0.009016	0.2872	23128233,21	Crohn's disease,Celiac disease,Multiple sclerosis
16:23761361	rs7404095[A]	0.4325	-0.0289	0.01253	0.4538	23128233	Inflammatory bowel disease
2:28468298	rs925255[T]	0.4589	-0.0288	0.01332	0.743	23128233	Inflammatory bowel disease
6:159385965	rs1738074[T]	0.4396	0.029	0.01393	0.6404	21833088,20	Celiac disease,Multiple sclerosis,Crohn's disease,Crohn's disease and celiac disease,Crohn's disease
7:128505142	rs12537284[A]	0.1472	-0.0394	0.01552	0.6468	18204446,21	Systemic lupus erythematosus,Systemic lupus erythematosus,Ulcerative colitis,Ulcerative colitis,Primary biliary cirrhosis,Rheumatoid arthritis,Systemic luy
19:1075031	rs2024092[A]	0.2228	0.033	0.01648	0.1496	23128233,21	Crohn's disease,Crohn's disease
1:171128857	rs9286879[A]	0.2602	0.0313	0.01658	0.3769	18587394,23	Crohn's disease,Crohn's disease,Crohn's disease
15:39345329	rs28374715[A]	0.2485	-0.0313	0.0176	0.4917	23128233	Ulcerative colitis
16:67148731	rs1728785[A]	0.2197	-0.0321	0.01777	0.3571	19915572,23	Ulcerative colitis,Ulcerative colitis,Ulcerative colitis
2:27584444	rs1728918[T]	0.3836	0.0279	0.01856	0.1102	23128233,21	Crohn's disease,Crohn's disease
7:116680082	rs38904[T]	0.446	0.0276	0.01889	0.1079	23128233	Inflammatory bowel disease
9:92968237	rs4743820[T]	0.3034	-0.0295	0.01923	0.129	23128233	Inflammatory bowel disease
6:126740412	rs9388489[A]	0.4538	-0.0265	0.0217	0.9805	19430480	Type 1 diabetes
6:135781048	rs11154801[A]	0.3507	0.0272	0.02203	0.1193	21833088	Multiple sclerosis
13:43355925	rs3764147[A]	0.2081	-0.0308	0.0226	0.8101	18587394,21	Crohn's disease,Crohn's disease,Crohn's disease
3:103231328	rs771767[A]	0.2562	0.0296	0.02313	0.7649	21833088	Multiple sclerosis
10:35335437	rs11010067[C]	0.3543	-0.0256	0.03289	0.973	23128233,21	Inflammatory bowel disease,Ulcerative colitis,Crohn's disease,Crohn's disease
5:35978799	rs860413[A]	0.2966	0.0267	0.03529	0.4051	21399635,21	Primary biliary cirrhosis,Multiple sclerosis,Ulcerative colitis,Primary biliary cirrhosis
20:44175471	rs1569723[A]	0.2546	0.0272	0.03541	0.1781	23128233,21	Inflammatory bowel disease,Multiple sclerosis,Rheumatoid arthritis,Rheumatoid arthritis
21:44440169	rs7282490[A]	0.4018	0.0244	0.0355	0.7213	23128233,21	Inflammatory bowel disease,Crohn's disease,Ulcerative colitis,Crohn's disease,Celiac disease,Rheumatoid arthritis

DEPICT gene set enrichment analysis for shared loci

Original gene set ID	Original gene set description	Nominal P va False discovery rate	
ENSG00000127191	TRAF2 subnetwork	4.57E-10	0
ENSG00000123411	IKZF4 subnetwork	5.68E-10	0
MP:0008088	abnormal T-helper 1 cell differentiation	4.77E-09	0
GO:0006917	induction of apoptosis	5.36E-08	0
GO:0048872	homeostasis of number of cells	8.25E-08	0
GO:0012502	induction of programmed cell death	1.49E-07	0
ENSG00000115415	STAT1 subnetwork	1.53E-06	0.0025
GO:0030099	myeloid cell differentiation	1.44E-06	0.002631579
ENSG00000171150	SOCS5 subnetwork	1.44E-06	0.002777778
MP:0008470	abnormal spleen B cell follicle morphology	1.36E-06	0.002941176
MP:0005091	increased double-positive T cell number	1.27E-06	0.003125
MP:0006387	abnormal T cell number	1.20E-06	0.003333333
ENSG00000132676	DAP3 subnetwork	8.71E-07	0.003571429
MP:0005011	increased eosinophil cell number	5.33E-06	0.00375
MP:0000221	decreased leukocyte cell number	8.67E-07	0.003846154
GO:0002285	lymphocyte activation involved in immune response	5.11E-06	0.003846154
GO:0008624	induction of apoptosis by extracellular signals	4.50E-06	0.003947368
ENSG00000078043	PIAS2 subnetwork	4.23E-06	0.004054054
ENSG00000100906	NFKBIA subnetwork	7.60E-07	0.004166667
GO:0030097	hemopoiesis	4.20E-06	0.004166667
GO:0002697	regulation of immune effector process	4.11E-06	0.004285714
ENSG00000175505	CLCF1 subnetwork	3.65E-06	0.004411765
ENSG00000165806	CASP7 subnetwork	7.23E-07	0.004545455
ENSG00000180008	SOCS4 subnetwork	3.33E-06	0.004545455
MP:0008255	decreased megakaryocyte cell number	3.28E-06	0.0046875
GO:0050798	activated T cell proliferation	3.24E-06	0.00483871
MP:0008474	absent spleen germinal center	5.59E-06	0.004878049
ENSG00000091831	ESR1 subnetwork	5.13E-07	0.005
GO:0051223	regulation of protein transport	3.08E-06	0.005
ENSG00000120833	SOCS2 subnetwork	3.03E-06	0.005172414
MP:0001858	intestinal inflammation	2.66E-06	0.005357143
MP:0002490	abnormal immunoglobulin level	4.42E-07	0.005555556
MP:0008082	increased single-positive T cell number	2.65E-06	0.005555556
GO:0042110	T cell activation	2.56E-06	0.005769231
ENSG00000080824	HSP90AA1 subnetwork	2.34E-06	0.006
ENSG00000186660	ZFP91 subnetwork	2.31E-06	0.00625
MP:0000696	abnormal Peyer's patch morphology	2.87E-07	0.00625
ENSG00000170677	SOCS6 subnetwork	2.20E-06	0.006521739
GO:0048534	hemopoietic or lymphoid organ development	2.14E-06	0.006818182
ENSG00000168610	STAT3 subnetwork	2.28E-07	0.007142857
MP:0000322	increased granulocyte number	2.00E-06	0.007142857
GO:0032946	positive regulation of mononuclear cell proliferation	1.46E-05	0.00754717
ENSG00000169194	IL13 subnetwork	1.61E-05	0.007589286
ENSG00000124151	NCOA3 subnetwork	1.45E-05	0.007619048
ENSG00000096968	JAK2 subnetwork	1.75E-05	0.007627119
MP:0004804	decreased susceptibility to autoimmune diabetes	1.60E-05	0.007657658
GO:0002377	immunoglobulin production	1.44E-05	0.007692308
ENSG00000105639	JAK3 subnetwork	1.72E-05	0.007692308
ENSG00000095752	IL11 subnetwork	3.31E-05	0.007692308
ENSG00000162891	IL20 subnetwork	1.55E-05	0.007727273

ENSG00000196455	PIK3R4 subnetwork	3.30E-05	0.007738095
GO:0002286	T cell activation involved in immune response	1.71E-05	0.007758621
GO:0030217	T cell differentiation	1.42E-05	0.00776699
MP:0004974	decreased regulatory T cell number	6.56E-06	0.007777778
MP:0002389	abnormal Peyer's patch follicle morphology	3.27E-05	0.007784431
ENSG00000150281	CTF1 subnetwork	1.55E-05	0.007798165
ENSG00000171855	IFNB1 subnetwork	1.31E-05	0.0078125
ENSG00000130427	EPO subnetwork	1.68E-05	0.007826087
GO:0045076	regulation of interleukin-2 biosynthetic process	3.24E-05	0.007831325
MP:0001873	stomach inflammation	1.42E-05	0.007843137
MP:0002495	increased IgA level	1.53E-05	0.00787037
ENSG00000136488	CSH1 subnetwork	3.23E-05	0.007878788
MP:0008700	decreased interleukin-4 secretion	1.31E-05	0.007894737
ENSG00000113580	NR3C1 subnetwork	1.66E-05	0.007894737
GO:0042098	T cell proliferation	2.77E-05	0.007894737
ENSG00000131788	PIAS3 subnetwork	1.41E-05	0.007920792
MP:0002619	abnormal lymphocyte morphology	3.22E-05	0.007926829
GO:0045321	leukocyte activation	2.53E-05	0.007931034
ENSG00000106546	AHR subnetwork	1.50E-05	0.007943925
ENSG00000174697	LEP subnetwork	2.75E-05	0.00794702
GO:0002637	regulation of immunoglobulin production	6.48E-06	0.007954545
GO:0070227	lymphocyte apoptotic process	1.64E-05	0.007964602
GO:0005164	tumor necrosis factor receptor binding	3.20E-05	0.00797546
ENSG00000162892	IL24 subnetwork	1.29E-05	0.007978723
MP:0006413	increased T cell apoptosis	2.49E-05	0.007986111
MP:0002391	abnormal Peyer's patch germinal center morphology	1.40E-05	0.008
MP:0000715	decreased thymocyte number	2.73E-05	0.008
GO:0043367	CD4-positive, alpha-beta T cell differentiation	3.15E-05	0.008024691
GO:0042102	positive regulation of T cell proliferation	2.47E-05	0.008041958
MP:0008751	abnormal interleukin level	2.61E-05	0.008053691
ENSG00000184995	IFNE subnetwork	1.29E-05	0.008064516
ENSG00000172179	PRL subnetwork	3.02E-05	0.008074534
ENSG00000162434	JAK1 subnetwork	1.40E-05	0.008080808
ENSG00000168811	IL12A subnetwork	2.45E-05	0.008098592
MP:0005078	abnormal cytotoxic T cell physiology	2.61E-05	0.008108108
GO:0002706	regulation of lymphocyte mediated immunity	3.00E-05	0.008125
MP:0001805	decreased IgG level	6.39E-06	0.008139535
ENSG00000114737	CISH subnetwork	3.40E-05	0.008139535
ENSG00000164136	IL15 subnetwork	1.29E-05	0.008152174
GO:0001933	negative regulation of protein phosphorylation	2.37E-05	0.008156028
GO:0001776	leukocyte homeostasis	2.60E-05	0.008163265
ENSG00000196498	NCOR2 subnetwork	1.39E-05	0.008163265
ENSG00000104365	IKBKB subnetwork	2.79E-05	0.008169935
ENSG00000113525	IL5 subnetwork	2.97E-05	0.008176101
MP:0000218	increased leukocyte cell number	3.38E-05	0.008187135
ENSG00000113520	IL4 subnetwork	2.34E-05	0.008214286
GO:0046636	negative regulation of alpha-beta T cell activation	2.60E-05	0.008219178
GO:0045191	regulation of isotype switching	2.96E-05	0.008227848
MP:0008482	decreased spleen germinal center number	3.35E-05	0.008235294
ENSG00000142224	IL19 subnetwork	1.29E-05	0.008241758
ENSG00000100393	EP300 subnetwork	1.33E-05	0.008247423
ENSG00000136634	IL10 subnetwork	1.90E-05	0.008264463
GO:0070665	positive regulation of leukocyte proliferation	2.32E-05	0.008273381

MP:0001246	mixed cellular infiltration to dermis	2.93E-05	0.008280255
ENSG00000115705	TPO subnetwork	6.09E-06	0.008333333
ENSG00000128342	LIF subnetwork	1.29E-05	0.008333333
GO:0019900	kinase binding	1.87E-05	0.008333333
ENSG00000096717	SIRT1 subnetwork	2.30E-05	0.008333333
GO:0002312	B cell activation involved in immune response	2.92E-05	0.008333333
MP:0001194	dermatitis	3.52E-05	0.008333333
ENSG00000109471	IL2 subnetwork	3.45E-05	0.008381503
GO:0002684	positive regulation of immune system process	2.91E-05	0.008387097
ENSG00000136244	IL6 subnetwork	2.26E-05	0.008394161
GO:0046649	lymphocyte activation	1.87E-05	0.008403361
ENSG00000182393	IL29 subnetwork	1.29E-05	0.008426966
ENSG00000099985	OSM subnetwork	2.84E-05	0.008441558
REACTOME_BMAL1CLOCKNPA	REACTOME_BMAL1CLOCKNPAS2_ACTIVATES_GENE_EXPRES	2.25E-05	0.008455882
GO:0051059	NF-kappaB binding	2.23E-05	0.008518519
ENSG00000111536	IL26 subnetwork	1.29E-05	0.008522727
ENSG00000105851	PIK3CG subnetwork	3.74E-05	0.008522727
GO:0045190	isotype switching	2.02E-05	0.008527132
ENSG00000146904	EPHA1 subnetwork	3.70E-05	0.008571429
ENSG00000108342	CSF3 subnetwork	2.21E-05	0.00858209
GO:0002208	somatic diversification of immunoglobulins involved in imm	2.02E-05	0.00859375
ENSG00000147896	IFNK subnetwork	1.29E-05	0.00862069
ENSG00000166888	STAT6 subnetwork	2.19E-05	0.008646617
GO:0002204	somatic recombination of immunoglobulin genes involved i	2.02E-05	0.008661417
GO:0002381	immunoglobulin production involved in immunoglobulin m	6.61E-06	0.008695652
ENSG00000164399	IL3 subnetwork	2.16E-05	0.008712121
ENSG00000145839	IL9 subnetwork	1.29E-05	0.00872093
GO:0050671	positive regulation of lymphocyte proliferation	2.00E-05	0.008730159
ENSG00000110944	IL23A subnetwork	3.87E-05	0.008757062
MP:0000512	intestinal ulcer	2.05E-05	0.008778626
MP:0008476	increased spleen red pulp amount	4.14E-05	0.008791209
ENSG00000113302	IL12B subnetwork	2.00E-05	0.0088
ENSG00000138684	IL21 subnetwork	1.29E-05	0.008823529
ENSG00000105647	PIK3R2 subnetwork	4.13E-05	0.008839779
GO:0046631	alpha-beta T cell activation	2.04E-05	0.008846154
MP:0000628	abnormal mammary gland development	1.95E-05	0.008870968
GO:0000018	regulation of DNA recombination	4.10E-05	0.008888889
ENSG00000104432	IL7 subnetwork	1.29E-05	0.008928571
ENSG00000120235	IFNA6 subnetwork	4.05E-05	0.008938547
ENSG00000100030	MAPK1 subnetwork	1.94E-05	0.008943089
MP:0008499	increased IgG1 level	4.01E-05	0.008988764
ENSG00000131759	RARA subnetwork	1.94E-05	0.009016393
ENSG00000197110	IL28B subnetwork	1.29E-05	0.009036145
ENSG00000177047	IFNW1 subnetwork	1.29E-05	0.009146341
GO:0030098	lymphocyte differentiation	4.69E-05	0.009162304
ENSG00000105397	TYK2 subnetwork	4.65E-05	0.009210526
ENSG00000164400	CSF2 subnetwork	5.38E-05	0.00925
ENSG00000183709	IL28A subnetwork	1.29E-05	0.009259259
GO:0050863	regulation of T cell activation	4.65E-05	0.009259259
GO:0032613	interleukin-10 production	4.35E-05	0.009289617
ENSG000000065883	CDK13 subnetwork	5.35E-05	0.009296482
GO:0002252	immune effector process	4.62E-05	0.009308511
GO:0051249	regulation of lymphocyte activation	5.34E-05	0.009343434

ENSG00000108840	HDAC5 subnetwork	8.22E-05	0.009347826
GO:0001816	cytokine production	4.59E-05	0.009358289
GO:0001773	myeloid dendritic cell activation	1.29E-05	0.009375
GO:0070661	leukocyte proliferation	8.11E-05	0.009388646
GO:0033619	membrane protein proteolysis	5.30E-05	0.009390863
GO:0006509	membrane protein ectodomain proteolysis	4.54E-05	0.009408602
GO:0002694	regulation of leukocyte activation	7.67E-05	0.009429825
GO:0032663	regulation of interleukin-2 production	5.21E-05	0.009438776
GO:0032944	regulation of mononuclear cell proliferation	8.30E-05	0.00944206
GO:0050864	regulation of B cell activation	4.45E-05	0.009459459
GO:0050871	positive regulation of B cell activation	7.66E-05	0.009471366
GO:0032633	interleukin-4 production	8.29E-05	0.009482759
REACTOME_TOLL_LIKE_RECEP	REACTOME_TOLL_LIKE_RECEPTOR_10_TLR10_CASCADE	9.70E-05	0.009486166
GO:0016445	somatic diversification of immunoglobulins	5.20E-05	0.009487179
ENSG00000142273	CBLC subnetwork	1.28E-05	0.009493671
GO:0051427	hormone receptor binding	4.42E-05	0.00951087
GO:0033077	T cell differentiation in thymus	7.57E-05	0.009513274
REACTOME_INTERLEUKIN:2_SI	REACTOME_INTERLEUKIN:2_SIGNALING	8.24E-05	0.00952381
REACTOME_MYD88_CASCADE	REACTOME_MYD88_CASCADE_INITIATED_ON_PLASMA_M	9.70E-05	0.00952381
GO:0016447	somatic recombination of immunoglobulin gene segments	5.13E-05	0.009536082
GO:0002703	regulation of leukocyte mediated immunity	6.83E-05	0.009545455
MP:0008173	increased follicular B cell number	7.28E-05	0.009555556
GO:0001817	regulation of cytokine production	5.66E-05	0.009558824
REACTOME_TOLL_LIKE_RECEP	REACTOME_TOLL_LIKE_RECEPTOR_5_TLR5_CASCADE	9.70E-05	0.009561753
MP:0002460	decreased immunoglobulin level	6.16E-05	0.009569378
GO:0046632	alpha-beta T cell differentiation	4.95E-05	0.009585492
MP:0003945	abnormal lymphocyte physiology	6.78E-05	0.009589041
GO:0032653	regulation of interleukin-10 production	7.24E-05	0.009598214
GO:0035257	nuclear hormone receptor binding	9.65E-05	0.0096
MP:0000711	thymus cortex hypoplasia	5.63E-05	0.009605911
GO:0042974	retinoic acid receptor binding	1.27E-05	0.009615385
MP:0005232	abnormal mesenteric lymph node morphology	5.99E-05	0.009615385
MP:0005466	abnormal T-helper 2 physiology	8.80E-05	0.009623431
GO:0070201	regulation of establishment of protein localization	6.72E-05	0.009633028
ENSG00000120659	TNFSF11 subnetwork	4.88E-05	0.009635417
GO:0070229	negative regulation of lymphocyte apoptotic process	9.63E-05	0.009638554
GO:0019901	protein kinase binding	7.14E-05	0.009641256
MP:0008102	lymph node hyperplasia	5.61E-05	0.009653465
MP:0005092	decreased double-positive T cell number	5.99E-05	0.009661836
GO:0032813	tumor necrosis factor receptor superfamily binding	8.70E-05	0.009663866
ENSG00000084676	NCOA1 subnetwork	6.69E-05	0.009677419
ENSG00000112208	BAG2 subnetwork	9.55E-05	0.009677419
GO:0051023	regulation of immunoglobulin secretion	7.10E-05	0.009684685
GO:0070663	regulation of leukocyte proliferation	5.56E-05	0.009701493
ENSG00000163599	CTLA4 subnetwork	8.69E-05	0.009704641
MP:0005463	abnormal CD4-positive T cell physiology	5.96E-05	0.009708738
MP:0008040	decreased NK T cell number	9.45E-05	0.009716599
GO:0051251	positive regulation of lymphocyte activation	6.65E-05	0.009722222
MP:0003643	spleen atrophy	7.07E-05	0.009728507
MP:0000689	abnormal spleen morphology	1.21E-05	0.00974026
GO:0002702	positive regulation of production of molecular mediator of	8.52E-05	0.009745763
MP:0003009	abnormal cytokine secretion	5.86E-05	0.009756098
ENSG00000168310	IRF2 subnetwork	9.41E-05	0.009756098

ENSG00000138794	CASP6 subnetwork	1.00E-04	0.009765625
GO:0050870	positive regulation of T cell activation	6.61E-05	0.009767442
MP:0002356	abnormal spleen red pulp morphology	8.49E-05	0.009787234
MP:0001790	abnormal immune system physiology	9.31E-05	0.009795918
MP:0005095	decreased T cell proliferation	1.00E-04	0.009803922
MP:0001806	decreased IgM level	6.55E-05	0.009813084
GO:0050778	positive regulation of immune response	1.23E-04	0.009821429
ENSG00000109320	NFKB1 subnetwork	8.49E-05	0.00982906
MP:0004803	increased susceptibility to autoimmune diabetes	9.27E-05	0.009836066
MP:0002344	abnormal lymph node B cell domain morphology	9.99E-05	0.00984252
ENSG00000198791	CNOT7 subnetwork	1.22E-04	0.009856631
GO:0002260	lymphocyte homeostasis	6.42E-05	0.009859155
ENSG00000147873	IFNA5 subnetwork	1.15E-05	0.009868421
GO:0002507	tolerance induction	9.10E-05	0.009876543
GO:0046651	lymphocyte proliferation	1.22E-04	0.009892086
MP:0004393	abnormal cochlear inner hair cell morphology	6.41E-05	0.00990566
MP:0002401	abnormal lymphopoiesis	9.04E-05	0.009917355
GO:0042129	regulation of T cell proliferation	1.02E-04	0.009922179
ENSG00000141506	PIK3R5 subnetwork	1.10E-04	0.009925094
GO:0002699	positive regulation of immune effector process	1.22E-04	0.009927798
MP:0001829	increased activated T cell number	1.25E-04	0.009929078
REACTOME_TRAF6_MEDIATED	REACTOME_TRAF6_MEDIATED_NF:KB_ACTIVATION	6.37E-05	0.009952607
GO:0002696	positive regulation of leukocyte activation	9.00E-05	0.009958506
MP:0008567	decreased interferon-gamma secretion	1.09E-04	0.009962406
GO:0002200	somatic diversification of immune receptors	1.21E-04	0.009963768
MP:0000717	abnormal lymphocyte cell number	1.23E-04	0.009964413
ENSG00000147885	IFNA16 subnetwork	1.15E-05	0.01
MP:0001853	heart inflammation	6.27E-05	0.01
MP:0002432	abnormal CD4-positive T cell morphology	8.92E-05	0.01
ENSG00000075391	RASAL2 subnetwork	1.09E-04	0.01
MP:0005015	increased T cell number	1.18E-04	0.01
MP:0008078	increased CD8-positive T cell number	1.16E-04	0.010036496
MP:0002493	increased IgG level	1.09E-04	0.010037879
GO:0071887	leukocyte apoptotic process	1.03E-04	0.01003861
GO:0002449	lymphocyte mediated immunity	1.15E-04	0.01007326
GO:0002700	regulation of production of molecular mediator of immune	1.11E-04	0.010074627
GO:0050670	regulation of lymphocyte proliferation	1.08E-04	0.010076046
MP:0005042	abnormal level of surface class II molecules	1.03E-04	0.010077519
ENSG00000185811	IKZF1 subnetwork	1.14E-04	0.010110294
MP:0001844	autoimmune response	1.08E-04	0.010114504
ENSG00000147877	ENSG00000147877 subnetwork	1.15E-05	0.010135135
GO:0001783	B cell apoptotic process	1.13E-04	0.010147601
ENSG00000130522	JUND subnetwork	1.06E-04	0.010153257
ENSG00000111679	PTPN6 subnetwork	1.13E-04	0.010185185
GO:0002889	regulation of immunoglobulin mediated immune response	1.04E-04	0.010192308
GO:0002712	regulation of B cell mediated immunity	1.12E-04	0.010223048
ENSG00000188379	IFNA2 subnetwork	1.15E-05	0.010273973
MP:0005089	decreased double-negative T cell number	1.28E-04	0.010314685
ENSG00000171608	PIK3CD subnetwork	9.01E-06	0.010344828
MP:0000691	enlarged spleen	1.28E-04	0.010350877
MP:0008075	decreased CD4-positive T cell number	1.28E-04	0.010387324
ENSG00000184557	SOCS3 subnetwork	7.19E-06	0.010416667
ENSG00000137080	IFNA21 subnetwork	1.15E-05	0.010416667

GO:0006417	regulation of translation	1.26E-04	0.010424028
MP:0002497	increased IgE level	8.30E-06	0.010526316
ENSG00000120242	IFNA8 subnetwork	1.15E-05	0.01056338
MP:0001828	abnormal T cell activation	1.29E-04	0.010627178
ENSG00000145777	TSLP subnetwork	7.16E-06	0.010638298
GO:0046006	regulation of activated T cell proliferation	8.26E-06	0.010714286
ENSG00000120247	ENSG00000120247 subnetwork	1.15E-05	0.010714286
GO:0050776	regulation of immune response	1.31E-04	0.010726644
MP:0002492	decreased IgE level	1.31E-04	0.010763889
ENSG00000186809	ENSG00000186809 subnetwork	1.15E-05	0.010869565
MP:0008568	abnormal interleukin secretion	8.12E-06	0.010909091
ENSG00000186803	IFNA10 subnetwork	1.15E-05	0.011029412
MP:0008135	small Peyer's patches	1.51E-04	0.011056106
GO:0050688	regulation of defense response to virus	1.50E-04	0.011092715
ENSG00000005339	CREBBP subnetwork	8.10E-06	0.011111111
GO:0032880	regulation of protein localization	1.44E-04	0.011111111
MP:0001870	salivary gland inflammation	1.50E-04	0.011129568
MP:0008496	decreased IgG2a level	1.40E-04	0.011130137
ENSG00000139546	TARBP2 subnetwork	1.42E-04	0.011148649
GO:0032943	mononuclear cell proliferation	1.49E-04	0.011166667
KEGG_T_CELL_RECEPTOR_SIGNALING_PATHWAY	KEGG_T_CELL_RECEPTOR_SIGNALING_PATHWAY	1.38E-04	0.011168385
GO:0045086	positive regulation of interleukin-2 biosynthetic process	1.42E-04	0.011186441
ENSG00000127318	IL22 subnetwork	1.12E-05	0.01119403
GO:0048291	isotype switching to IgG isotypes	1.66E-04	0.011201299
MP:0008500	increased IgG2a level	1.48E-04	0.011204013
ENSG00000165280	VCP subnetwork	1.37E-04	0.011206897
GO:0002562	somatic diversification of immune receptors via germline recombination	1.41E-04	0.01122449
ENSG00000068024	HDAC4 subnetwork	1.64E-04	0.011237785
MP:0000703	abnormal thymus morphology	1.48E-04	0.011241611
GO:0016444	somatic cell DNA recombination	1.41E-04	0.011262799
MP:0005027	increased susceptibility to parasitic infection	1.62E-04	0.01127451
ENSG00000186350	RXRA subnetwork	1.09E-05	0.011290323
GO:0002250	adaptive immune response	1.61E-04	0.011311475
MP:0002722	abnormal immune system organ morphology	8.09E-06	0.011320755
GO:0050852	T cell receptor signaling pathway	1.67E-04	0.011326861
GO:0048305	immunoglobulin secretion	1.56E-04	0.011348684
ENSG00000213341	CHUK subnetwork	1.11E-05	0.011363636
GO:0002521	leukocyte differentiation	1.08E-05	0.01147541
MP:0001881	abnormal mammary gland physiology	8.00E-06	0.011538462
ENSG00000092098	RNF31 subnetwork	1.10E-05	0.011538462
GO:0002708	positive regulation of lymphocyte mediated immunity	1.73E-04	0.011587302
GO:0002705	positive regulation of leukocyte mediated immunity	1.73E-04	0.011624204
GO:0070228	regulation of lymphocyte apoptotic process	1.72E-04	0.011661342
ENSG00000185338	SOCS1 subnetwork	1.05E-05	0.011666667
GO:0042094	interleukin-2 biosynthetic process	1.70E-04	0.011698718
ENSG00000072274	TFRC subnetwork	1.10E-05	0.01171875
MP:0008074	increased CD4-positive T cell number	1.70E-04	0.011736334
GO:0035710	CD4-positive, alpha-beta T cell activation	7.97E-06	0.011764706
MP:0005348	increased T cell proliferation	1.68E-04	0.011774194
MP:0002339	abnormal lymph node morphology	1.02E-05	0.011864407
GO:0042104	positive regulation of activated T cell proliferation	1.10E-05	0.011904762
ENSG00000111537	IFNG subnetwork	7.62E-06	0.012
GO:0050867	positive regulation of cell activation	1.75E-04	0.012183544

ENSG00000167363	FN3K subnetwork	1.78E-04	0.0121875
MP:0006270	abnormal mammary gland growth during lactation	1.78E-04	0.012225705
MP:0005013	increased lymphocyte cell number	7.47E-06	0.012244898
MP:0001222	epidermal hyperplasia	1.77E-04	0.012264151
KEGG_DORSO_VENTRAL_AXIS_KEGG_DORSO_VENTRAL_AXIS_FORMATION		1.77E-04	0.012302839
GO:0005035	death receptor activity	1.81E-04	0.012305296
ENSG00000121966	CXCR4 subnetwork	1.82E-04	0.01242236
ENSG00000105810	CDK6 subnetwork	1.87E-04	0.0125387
MP:0005090	increased double-negative T cell number	1.89E-04	0.012808642
MP:0003449	abnormal intestinal goblet cell morphology	1.93E-04	0.013076923
MP:0008661	decreased interleukin-10 secretion	1.99E-04	0.013190184
GO:0005031	tumor necrosis factor-activated receptor activity	2.02E-04	0.013871951
ENSG00000170484	KRT74 subnetwork	2.01E-04	0.013914373
MP:0008024	absent lymph nodes	2.04E-04	0.014090909
GO:0050865	regulation of cell activation	2.31E-04	0.014121037
MP:0003957	abnormal nitric oxide homeostasis	2.04E-04	0.014133739
MP:0009335	decreased splenocyte proliferation	2.31E-04	0.01416185
MP:0005025	abnormal response to infection	2.30E-04	0.014202899
GO:2000514	regulation of CD4-positive, alpha-beta T cell activation	2.29E-04	0.014244186
GO:0046965	retinoid X receptor binding	2.17E-04	0.014264264
ENSG00000212860	ENSG00000212860 subnetwork	2.23E-04	0.014264706
REACTOME_PLCG1_EVENTS_IN_REACTOME_PLCG1_EVENTS_IN_ERBB2_SIGNALING		2.29E-04	0.014285714
MP:0008097	increased plasma cell number	2.41E-04	0.014285714
ENSG00000204389	HSPA1A subnetwork	2.23E-04	0.014306785
MP:0008501	increased IgG2b level	2.16E-04	0.014307229
ENSG00000204231	RXRb subnetwork	2.40E-04	0.014325843
GO:0002440	production of molecular mediator of immune response	2.27E-04	0.014327485
ENSG00000212866	HSPA1B subnetwork	2.23E-04	0.014349112
ENSG00000131323	TRAF3 subnetwork	2.14E-04	0.014350453
ENSG00000206289	RXRb subnetwork	2.40E-04	0.014366197
ENSG00000073584	SMARCE1 subnetwork	2.27E-04	0.014369501
ENSG00000215292	ENSG00000215292 subnetwork	2.23E-04	0.014391691
ENSG00000206218	ENSG00000206218 subnetwork	2.40E-04	0.01440678
ENSG00000173757	STAT5B subnetwork	2.36E-04	0.014428571
ENSG00000204388	HSPA1B subnetwork	2.23E-04	0.014434524
ENSG00000184047	DIABLO subnetwork	2.40E-04	0.014447592
ENSG00000116478	HDAC1 subnetwork	2.34E-04	0.014469914
GO:0032623	interleukin-2 production	2.22E-04	0.014477612
ENSG00000164305	CASP3 subnetwork	2.39E-04	0.014488636
MP:0002455	abnormal dendritic cell antigen presentation	2.31E-04	0.014511494
ENSG00000115641	FHL2 subnetwork	2.20E-04	0.014520958
ENSG00000168884	TNIP2 subnetwork	2.38E-04	0.014529915
REACTOME_GROWTH_HORMONE_REACTOME_GROWTH_HORMONE_RECEPTOR_SIGNALING		2.52E-04	0.014583333
MP:0006269	abnormal mammary gland growth during pregnancy	2.51E-04	0.014623955
ENSG00000141655	TNFRSF11A subnetwork	2.49E-04	0.014664804
ENSG00000120210	INSL6 subnetwork	2.58E-04	0.014819945
ENSG00000125686	MED1 subnetwork	2.62E-04	0.01489071
MP:0000688	lymphoid hyperplasia	2.61E-04	0.014931507
MP:0003156	abnormal leukocyte migration	2.60E-04	0.014972527
ENSG00000137275	RIPK1 subnetwork	2.60E-04	0.015013774
MP:0002217	small lymph nodes	2.60E-04	0.015055249
MP:0005018	decreased T cell number	2.66E-04	0.015081522
MP:0000716	abnormal immune system cell morphology	2.64E-04	0.015122616

MP:0005616	decreased susceptibility to type IV hypersensitivity reaction	2.76E-04	0.015240642
MP:0001807	decreased IgA level	2.75E-04	0.015281501
MP:0003725	increased autoantibody level	2.74E-04	0.015322581
MP:0002123	abnormal hematopoiesis	2.74E-04	0.015363881
ENSG00000064012	CASP8 subnetwork	2.70E-04	0.015405405
MP:0003850	abnormal thymocyte activation	2.67E-04	0.015447154
REACTOME_DOWNSTREAM_SIGNAL_TRANSDUCTION	REACTOME_DOWNSTREAM_SIGNAL_TRANSDUCTION	2.80E-04	0.015466667
GO:0048302	regulation of isotype switching to IgG isotypes	2.90E-04	0.01547619
ENSG00000102226	USP11 subnetwork	2.90E-04	0.015517241
MP:0001577	anemia	2.89E-04	0.015558511
MP:0001860	liver inflammation	2.97E-04	0.015616798
ENSG00000165219	GAPVD1 subnetwork	2.97E-04	0.015657895
GO:0002263	cell activation involved in immune response	3.01E-04	0.015665796
MP:0002816	colitis	3.09E-04	0.015673575
ENSG00000179295	PTPN11 subnetwork	2.96E-04	0.015699208
GO:0002366	leukocyte activation involved in immune response	3.01E-04	0.015706806
GO:0045580	regulation of T cell differentiation	3.05E-04	0.015714286
MP:0008479	decreased spleen white pulp amount	3.12E-04	0.015721649
MP:0008577	increased circulating interferon-gamma level	3.04E-04	0.015755208
GO:0002573	myeloid leukocyte differentiation	3.10E-04	0.015762274
MP:0002145	abnormal T cell differentiation	3.14E-04	0.015809769
ENSG00000110395	CBL subnetwork	3.19E-04	0.015984655
ENSG00000198033	TUBA3C subnetwork	3.29E-04	0.015989848
MP:0005026	decreased susceptibility to parasitic infection	3.15E-04	0.016025641
ENSG00000075886	TUBA3D subnetwork	3.29E-04	0.016030534
MP:0000219	increased neutrophil cell number	3.24E-04	0.016071429
MP:0000414	alopecia	3.32E-04	0.016329114
ENSG00000196363	WDR5 subnetwork	3.41E-04	0.016583541
GO:0002831	regulation of response to biotic stimulus	3.41E-04	0.016625
REACTOME_EGFR_INTERACTS_WITH_PHOSPHOLIPASE_C	REACTOME_EGFR_INTERACTS_WITH_PHOSPHOLIPASE_C	3.39E-04	0.016666667
GO:0045830	positive regulation of isotype switching	3.38E-04	0.016708543
MP:0002088	abnormal embryonic growth/weight/body size	3.37E-04	0.01675063
MP:0001861	lung inflammation	3.37E-04	0.016792929
MP:0005329	abnormal myocardium layer morphology	3.48E-04	0.017910448
MP:0000220	increased monocyte cell number	3.54E-04	0.017990074
REACTOME_COSTIMULATION_BY_THE_CD28_FAMILY	REACTOME_COSTIMULATION_BY_THE_CD28_FAMILY	3.55E-04	0.018069307
MP:0001823	thymus hypoplasia	3.67E-04	0.018170732
ENSG00000107566	ERLIN1 subnetwork	3.93E-04	0.018171021
ENSG00000102882	MAPK3 subnetwork	4.07E-04	0.018192488
MP:0000706	small thymus	3.97E-04	0.01820331
GO:0018212	peptidyl-tyrosine modification	3.89E-04	0.018214286
ENSG00000123329	ARHGAP9 subnetwork	3.66E-04	0.018215159
ENSG00000141968	VAV1 subnetwork	3.61E-04	0.018226601
MP:0002743	glomerulonephritis	4.05E-04	0.018235294
ENSG00000116824	CD2 subnetwork	3.96E-04	0.018246445
GO:0002460	adaptive immune response based on somatic recombination	3.87E-04	0.018257757
MP:0008603	decreased circulating interleukin-4 level	3.63E-04	0.018259804
ENSG00000066336	SPI1 subnetwork	3.60E-04	0.018271605
GO:0002253	activation of immune response	4.03E-04	0.018278302
GO:0002287	alpha-beta T cell activation involved in immune response	3.87E-04	0.018301435
MP:0005014	increased B cell number	3.61E-04	0.018304668
MP:0004800	decreased susceptibility to experimental autoimmune encephalomyelitis	3.78E-04	0.018313253
GO:0002293	alpha-beta T cell differentiation involved in immune response	3.87E-04	0.018345324

MP:0002371	abnormal thymus cortex morphology	3.76E-04	0.018357488
ENSG00000182866	LCK subnetwork	3.83E-04	0.018389423
MP:0000702	enlarged lymph nodes	4.24E-04	0.018390805
MP:0002871	albuminuria	3.75E-04	0.018401937
GO:0043029	T cell homeostasis	4.23E-04	0.01843318
GO:0002902	regulation of B cell apoptotic process	3.75E-04	0.018446602
GO:0032673	regulation of interleukin-4 production	4.29E-04	0.018463303
GO:0045885	positive regulation of survival gene product expression	4.21E-04	0.018475751
GO:0033209	tumor necrosis factor-mediated signaling pathway	3.74E-04	0.018491484
MP:0000708	thymus hyperplasia	4.20E-04	0.018518519
GO:0032729	positive regulation of interferon-gamma production	4.34E-04	0.018535469
ENSG00000169375	SIN3A subnetwork	4.15E-04	0.018561485
MP:0005016	decreased lymphocyte cell number	4.14E-04	0.018604651
MP:0002442	abnormal leukocyte physiology	4.13E-04	0.018648019
MP:0008688	decreased interleukin-2 secretion	4.13E-04	0.018691589
GO:0000060	protein import into nucleus, translocation	4.12E-04	0.018735363
ENSG00000077097	TOP2B subnetwork	4.52E-04	0.019134396
GO:0003712	transcription cofactor activity	4.51E-04	0.019178082
MP:0000488	abnormal intestinal epithelium morphology	4.53E-04	0.019318182
MP:0008115	abnormal dendritic cell differentiation	4.66E-04	0.019570136
ENSG00000175354	PTPN2 subnetwork	4.66E-04	0.019614512
MP:0001846	increased inflammatory response	4.77E-04	0.01986456
REACTOME_SIGNALING_BY_IN	REACTOME_SIGNALING_BY_INTERLEUKINS	4.82E-04	0.01988764
MP:0000240	extramedullary hematopoiesis	4.81E-04	0.019932432
MP:0005671	abnormal response to transplant	4.87E-04	0.019955157
KEGG_JAK_STAT_SIGNALING_F	KEGG_JAK_STAT_SIGNALING_PATHWAY	5.01E-04	0.020155902
ENSG00000196591	HDAC2 subnetwork	4.95E-04	0.020200893
MP:0008037	abnormal T cell morphology	5.05E-04	0.020222222
GO:0002763	positive regulation of myeloid leukocyte differentiation	4.95E-04	0.020246085
MP:0000692	small spleen	5.07E-04	0.020399113
REACTOME_TRAF6_MEDIATED	REACTOME_TRAF6_MEDIATED_INDUCTION_OF_NFKB_ANI	5.13E-04	0.020419426
ENSG00000172216	CEBPB subnetwork	5.19E-04	0.02043956
GO:0016064	immunoglobulin mediated immune response	5.10E-04	0.020464602
GO:0001819	positive regulation of cytokine production	5.16E-04	0.020484581
MP:0002444	abnormal T cell physiology	5.23E-04	0.020504386
ENSG00000171094	ALK subnetwork	5.41E-04	0.020652174
MP:0002189	abnormal myocardial trabeculae morphology	5.36E-04	0.020697168
MP:0008660	increased interleukin-10 secretion	5.36E-04	0.020742358
MP:0001793	altered susceptibility to infection	5.36E-04	0.020787746
GO:0002443	leukocyte mediated immunity	5.56E-04	0.020932755
GO:0031347	regulation of defense response	5.64E-04	0.020950324
REACTOME_INTERLEUKIN_REC	REACTOME_INTERLEUKIN_RECEPTOR_SHC_SIGNALING	5.63E-04	0.020995671
GO:0019724	B cell mediated immunity	5.94E-04	0.021382979
GO:0045911	positive regulation of DNA recombination	6.00E-04	0.021398305
REACTOME_TOLL_LIKE_RECEP	REACTOME_TOLL_LIKE_RECEPTOR_TLR1TLR2_CASCADE	6.14E-04	0.021398747
REACTOME_NOTCH:HLH_TRAN	REACTOME_NOTCH:HLH_TRANSCRIPTION_PATHWAY	5.85E-04	0.021413276
MP:0008049	increased memory T cell number	5.92E-04	0.021428571
REACTOME_MYD88MAL_CASC	REACTOME_MYD88MAL_CASCADE_INITIATED_ON_PLASM.	6.14E-04	0.021443515
GO:0070670	response to interleukin-4	5.99E-04	0.021443737
GO:0002698	negative regulation of immune effector process	5.74E-04	0.021443966
ENSG00000126561	STAT5A subnetwork	6.17E-04	0.021458333
REACTOME_NICD_TRAFFICS_T	REACTOME_NICD_TRAFFICS_TO_NUCLEUS	5.85E-04	0.021459227
ENSG00000118260	CREB1 subnetwork	5.89E-04	0.021474359

REACTOME_TOLL_LIKE_RECEP'	REACTOME_TOLL_LIKE_RECEPTOR_TLR6TLR2_CASCADE	6.14E-04	0.02148847
ENSG00000127511	SIN3B subnetwork	5.79E-04	0.021505376
KEGG_CYTOKINE_CYTOKINE_R	KEGG_CYTOKINE_CYTOKINE_RECEPTOR_INTERACTION	6.30E-04	0.021517672
GO:0005126	cytokine receptor binding	6.06E-04	0.021518987
REACTOME_TOLL_LIKE_RECEP'	REACTOME_TOLL_LIKE_RECEPTOR_2_TLR2_CASCADE	6.14E-04	0.021533613
MP:0001800	abnormal humoral immune response	6.06E-04	0.021564482
MP:0009336	increased splenocyte proliferation	6.33E-04	0.021576763
GO:0043011	myeloid dendritic cell differentiation	6.11E-04	0.021578947
ENSG00000171720	HDAC3 subnetwork	6.39E-04	0.022153209
GO:0018108	peptidyl-tyrosine phosphorylation	6.44E-04	0.022210744
MP:0003944	abnormal T cell subpopulation ratio	6.47E-04	0.022233607
REACTOME_TCR_SIGNALING	REACTOME_TCR_SIGNALING	6.52E-04	0.022244898
MP:0008092	abnormal T-helper 2 cell differentiation	6.46E-04	0.022268041
GO:0031295	T cell costimulation	6.46E-04	0.022279261
GO:0045639	positive regulation of myeloid cell differentiation	6.50E-04	0.022290389
GO:0031294	lymphocyte costimulation	6.46E-04	0.022325103
GO:0008134	transcription factor binding	6.79E-04	0.022434608
MP:0006410	abnormal common myeloid progenitor cell morphology	6.77E-04	0.022479839
REACTOME_SIGNALING_BY_SC	REACTOME_SIGNALING_BY_SCF:KIT	6.81E-04	0.02248996
ENSG00000160691	SHC1 subnetwork	6.86E-04	0.0225
MP:0005017	decreased B cell number	6.73E-04	0.022525253
MP:0002375	abnormal thymus medulla morphology	6.84E-04	0.02254509
GO:0046634	regulation of alpha-beta T cell activation	6.91E-04	0.02255489
MP:0001192	scaly skin	6.65E-04	0.022560976
MP:0005070	impaired NK cell cytolysis	6.70E-04	0.02257085
ENSG00000141027	NCOR1 subnetwork	6.65E-04	0.022606925
GO:0000989	transcription factor binding transcription factor activity	6.68E-04	0.022616633
ENSG00000145675	PIK3R1 subnetwork	6.97E-04	0.022709163
GO:0002292	T cell differentiation involved in immune response	7.21E-04	0.022826087
MP:0008127	decreased dendritic cell number	7.12E-04	0.022871287
ENSG00000145907	G3BP1 subnetwork	7.12E-04	0.022916667
KEGG_FC_EPSILON_RI_SIGNAL	KEGG_FC_EPSILON_RI_SIGNALING_PATHWAY	7.09E-04	0.022962227
GO:0042093	T-helper cell differentiation	7.24E-04	0.022986248
GO:0002294	CD4-positive, alpha-beta T cell differentiation involved in in	7.24E-04	0.023031496
GO:0032609	interferon-gamma production	7.23E-04	0.023076923
MP:0004956	decreased thymus weight	7.34E-04	0.023385519
ENSG00000084774	CAD subnetwork	7.30E-04	0.023431373
ENSG00000158517	NCF1 subnetwork	7.44E-04	0.023535156
MP:0008475	intermingled spleen red and white pulp	7.49E-04	0.023540856
GO:0002819	regulation of adaptive immune response	7.46E-04	0.023586745
GO:0071356	cellular response to tumor necrosis factor	7.70E-04	0.023694391
ENSG00000056558	TRAF1 subnetwork	7.65E-04	0.02374031
MP:0008702	increased interleukin-5 secretion	7.64E-04	0.023786408
ENSG00000114423	CBLB subnetwork	7.72E-04	0.023938224
MP:0004946	abnormal regulatory T cell physiology	7.93E-04	0.024277457
ENSG00000026103	FAS subnetwork	8.08E-04	0.0243762
ENSG00000048052	HDAC9 subnetwork	7.94E-04	0.024423077
MP:0004816	abnormal class switch recombination	8.27E-04	0.02447619
ENSG00000169967	MAP3K2 subnetwork	8.26E-04	0.024522901
GO:0003713	transcription coactivator activity	8.24E-04	0.02456979
MP:0008083	decreased single-positive T cell number	8.22E-04	0.024616858
KEGG_CHEMOKINE_SIGNALING	KEGG_CHEMOKINE_SIGNALING_PATHWAY	8.41E-04	0.024904943
GO:0002757	immune response-activating signal transduction	8.51E-04	0.025

MP:0000599	enlarged liver	8.53E-04	0.025047259
GO:0001910	regulation of leukocyte mediated cytotoxicity	8.45E-04	0.025047438
MP:0008497	decreased IgG2b level	9.04E-04	0.025929368
MP:0000693	spleen hyperplasia	9.14E-04	0.025974026
MP:0005666	abnormal adipose tissue physiology	9.00E-04	0.025977654
MP:0003644	thymus atrophy	8.99E-04	0.026026119
ENSG00000056972	TRAF3IP2 subnetwork	8.96E-04	0.026074766
REACTOME_CIRCADIAN_CLOCK	REACTOME_CIRCADIAN_CLOCK	8.94E-04	0.026123596
GO:0042113	B cell activation	8.91E-04	0.02612782
MP:0009503	abnormal mammary gland duct morphology	8.88E-04	0.026132075
ENSG00000134460	IL2RA subnetwork	8.94E-04	0.026172608
MP:0000694	spleen hypoplasia	8.90E-04	0.026177024
MP:0005289	increased oxygen consumption	9.21E-04	0.026296296
MP:0002500	granulomatous inflammation	9.38E-04	0.026432532
GO:0031341	regulation of cell killing	9.41E-04	0.026476015
ENSG00000124813	RUNX2 subnetwork	9.73E-04	0.027056673
MP:0000379	decreased hair follicle number	9.70E-04	0.027106227
ENSG00000206088	ENSG00000206088 subnetwork	9.69E-04	0.027155963
MP:0004939	abnormal B cell morphology	9.76E-04	0.027189781
MP:0000685	abnormal immune system morphology	0.00102303	0.027191413
MP:0008495	decreased IgG1 level	0.00100921	0.027199282
GO:0043370	regulation of CD4-positive, alpha-beta T cell differentiation	9.68E-04	0.027205882
MP:0002362	abnormal spleen marginal zone morphology	9.95E-04	0.02722323
ENSG00000065559	MAP2K4 subnetwork	0.00102537	0.027232143
REACTOME_INTERLEUKIN:3_5_AND_GM-CSF_SIGNALING	REACTOME_INTERLEUKIN:3_5_AND_GM-CSF_SIGNALING	0.0010166	0.027240143
MP:0002357	abnormal spleen white pulp morphology	0.00100781	0.027248201
ENSG00000082512	TRAF5 subnetwork	9.66E-04	0.027255985
REACTOME_DOWNSTREAM_TCR_SIGNALING	REACTOME_DOWNSTREAM_TCR_SIGNALING	9.96E-04	0.027264493
KEGG_ADIPOCYTOKINE_SIGNALING_PATHWAY	KEGG_ADIPOCYTOKINE_SIGNALING_PATHWAY	9.93E-04	0.027272727
ENSG00000110330	BIRC2 subnetwork	0.0010075	0.027297297
ENSG00000133704	IPO8 subnetwork	1.00E-03	0.027305606
GO:0002437	inflammatory response to antigenic stimulus	9.91E-04	0.027322404
GO:0051250	negative regulation of lymphocyte activation	0.00104453	0.027336861
MP:0001928	abnormal ovulation	0.00100577	0.02734657
MP:0008217	abnormal B cell activation	0.00104715	0.027376761
REACTOME_PROLACTIN_RECEPTOR_SIGNALING	REACTOME_PROLACTIN_RECEPTOR_SIGNALING	0.00104242	0.027385159
GO:0002369	T cell cytokine production	0.00105374	0.027408056
MP:0002358	abnormal spleen periarteriolar lymphoid sheath morphology	0.00105063	0.02741652
MP:0008553	increased circulating tumor necrosis factor level	0.00104025	0.027433628
ENSG00000206560	ANKRD28 subnetwork	0.00103119	0.02745098
GO:0045582	positive regulation of T cell differentiation	0.00105342	0.02745614
GO:0060396	growth hormone receptor signaling pathway	0.00103954	0.02748227
GO:0045672	positive regulation of osteoclast differentiation	0.0010382	0.027491103
GO:0071378	cellular response to growth hormone stimulus	0.00103954	0.027531083
ENSG00000143119	CD53 subnetwork	0.0010698	0.027622378
ENSG00000134954	ETS1 subnetwork	0.00109242	0.02804878
GO:0032649	regulation of interferon-gamma production	0.00109227	0.028097731
ENSG00000100385	IL2RB subnetwork	0.00109907	0.028173913
MP:0000709	enlarged thymus	0.0011034	0.028298611
ENSG00000197122	SRC subnetwork	0.00111316	0.028336222
ENSG00000138378	STAT4 subnetwork	0.00111826	0.028373702
ENSG00000140396	NCOA2 subnetwork	0.00113764	0.028399312
GO:0002764	immune response-regulating signaling pathway	0.00114184	0.028436426

GO:0042506	tyrosine phosphorylation of Stat5 protein	0.00113245	0.028448276
REACTOME_ADAPTIVE_IMMUNE_SYSTEM	REACTOME_ADAPTIVE_IMMUNE_SYSTEM	0.00112908	0.028497409
MP:0003304	large intestinal inflammation	0.00115691	0.028559177
REACTOME_DAG_AND_IP3_SIGNALING	REACTOME_DAG_AND_IP3_SIGNALING	0.00116693	0.029023973
REACTOME_NF:MEDIATES_DOWN_MODULATION_OF_CE	REACTOME_NF:MEDIATES_DOWN_MODULATION_OF_CE	0.00117885	0.029145299
MP:0008566	increased interferon-gamma secretion	0.00119897	0.029607509
MP:0000714	increased thymocyte number	0.00120748	0.029727428
MP:0000217	abnormal leukocyte cell number	0.0012327	0.029864636
REACTOME_NFKB_AND_MAP_KINASES_ACTIVATION_MED	REACTOME_NFKB_AND_MAP_KINASES_ACTIVATION_MED	0.00123268	0.029915254
MP:0001825	arrested T cell differentiation	0.00125657	0.029915966
GO:0003714	transcription corepressor activity	0.00123004	0.029966044
ENSG00000162924	REL subnetwork	0.00125538	0.02996633
ENSG00000123609	NMI subnetwork	0.00125529	0.030016863
GO:0045619	regulation of lymphocyte differentiation	0.00122259	0.030017007
MP:0008703	decreased interleukin-5 secretion	0.00127415	0.030033557
MP:0008664	decreased interleukin-12 secretion	0.00128069	0.030067002
MP:0009338	increased splenocyte number	0.0012474	0.030067568
KEGG_ASTHMA	KEGG_ASTHMA	0.00129205	0.030116473
ENSG00000115085	ZAP70 subnetwork	0.00130121	0.030149502
ENSG00000113263	ITK subnetwork	0.00129033	0.030166667
GO:0002367	cytokine production involved in immune response	0.00130242	0.030182421
MP:0002052	decreased tumor incidence	0.00130635	0.030215232
ENSG00000051382	PIK3CB subnetwork	0.00128958	0.030217028
MP:0004947	skin inflammation	0.00128387	0.030267559
GO:0050851	antigen receptor-mediated signaling pathway	0.00131546	0.030280528
ENSG00000050748	MAPK9 subnetwork	0.00131515	0.030330579
ENSG00000055332	EIF2AK2 subnetwork	0.00132553	0.030345395
GO:0002822	regulation of adaptive immune response based on somatic	0.00132385	0.030395387
GO:0034612	response to tumor necrosis factor	0.00133443	0.030541872
MP:0004988	increased osteoblast cell number	0.00134507	0.030737705
MP:0002494	increased IgM level	0.00136582	0.030851064
MP:0004392	abnormal CD8-positive T cell physiology	0.00138191	0.031158238
GO:0045058	T cell selection	0.00137834	0.03120915
MP:0008617	increased circulating interleukin-12 level	0.00139409	0.031351792
GO:0032269	negative regulation of cellular protein metabolic process	0.00140302	0.031412338
ENSG00000116918	TSNAX subnetwork	0.00140079	0.031463415
MP:0005154	increased B cell proliferation	0.00141054	0.031685575
GO:0001818	negative regulation of cytokine production	0.00141747	0.031693548
REACTOME_NF:KB_IS_ACTIVATED_AND_SIGNALS_SURVIVAL	REACTOME_NF:KB_IS_ACTIVATED_AND_SIGNALS_SURVIVAL	0.0014139	0.03171521
ENSG00000157625	TAB3 subnetwork	0.00141762	0.031723027
MP:0002359	abnormal spleen germinal center morphology	0.00141597	0.03174475
GO:0050731	positive regulation of peptidyl-tyrosine phosphorylation	0.00143999	0.031818182
REACTOME_TRAF6_MEDIATED_INDUCION_OF_PROINFLAMMATORY_RESPONSE	REACTOME_TRAF6_MEDIATED_INDUCION_OF_PROINFLAMMATORY_RESPONSE	0.00143107	0.03184
ENSG00000124588	NQO2 subnetwork	0.00143939	0.03186901
MP:0002418	increased susceptibility to viral infection	0.00143093	0.031891026
MP:0008498	decreased IgG3 level	0.00142917	0.031942215
ENSG00000185950	IRS2 subnetwork	0.0014246	0.031993569
MP:0002723	abnormal immune serum protein physiology	0.00146674	0.032324841
GO:0002718	regulation of cytokine production involved in immune response	0.00150461	0.032413249
ENSG00000147168	IL2RG subnetwork	0.0014792	0.032432432
ENSG00000179271	GADD45GIP1 subnetwork	0.00148608	0.032460317
GO:2000107	negative regulation of leukocyte apoptotic process	0.00149812	0.032464455
ENSG00000206294	ENSG00000206294 subnetwork	0.00149569	0.032488114

ENSG00000159388	BTG2 subnetwork	0.00149792	0.032515823
ENSG00000173473	SMARCC1 subnetwork	0.00151919	0.032598425
MP:0003884	decreased macrophage cell number	0.00152647	0.032625786
ENSG00000089220	PEBP1 subnetwork	0.00153194	0.032810047
MP:0004955	increased thymus weight	0.00155974	0.03338558
ENSG00000081237	PTPRC subnetwork	0.00160744	0.033984375
KEGG_APOPTOSIS	KEGG_APOPTOSIS	0.00160459	0.034037559
MP:0001845	abnormal inflammatory response	0.00163639	0.034711388
GO:0031593	polyubiquitin binding	0.00164079	0.034735202
MP:0004799	increased susceptibility to experimental autoimmune encephalomyelitis	0.00165042	0.034758942
ENSG00000173163	COMMD1 subnetwork	0.00166603	0.034937888
ENSG00000134759	ELP2 subnetwork	0.00170535	0.035139319
GO:0050868	negative regulation of T cell activation	0.00168678	0.035193798
GO:0042522	regulation of tyrosine phosphorylation of Stat5 protein	0.00171335	0.035316847
REACTOME_INTERLEUKIN:6_SIGNALING	REACTOME_INTERLEUKIN:6_SIGNALING	0.0017196	0.035493827
ENSG00000160185	UBASH3A subnetwork	0.00174072	0.035615385
MP:0008079	decreased CD8-positive T cell number	0.00173752	0.035670262
GO:0016922	ligand-dependent nuclear receptor binding	0.00174446	0.035714286
GO:0042092	type 2 immune response	0.00179576	0.035866261
KEGG_INTESTINAL_IMMUNE_NETWORK_FOR_IGA_PRODUCTION	KEGG_INTESTINAL_IMMUNE_NETWORK_FOR_IGA_PRODUCTION	0.00177309	0.035889571
ENSG00000142166	IFNAR1 subnetwork	0.00180404	0.035909091
MP:0001849	ear inflammation	0.00178797	0.035920852
ENSG00000121031	ENSG00000121031 subnetwork	0.00178427	0.035954198
REACTOME_THE_ROLE_OF_NEF_IN_HIV:1_REPLICATION_AND_PATHOGENESIS	REACTOME_THE_ROLE_OF_NEF_IN_HIV:1_REPLICATION_AND_PATHOGENESIS	0.00180393	0.035963581
MP:0005350	increased susceptibility to autoimmune disorder	0.00178607	0.03597561
REACTOME_TOLL_LIKE_RECEPTOR_78_TLR78_CASCADE	REACTOME_TOLL_LIKE_RECEPTOR_78_TLR78_CASCADE	0.001781	0.036009174
ENSG00000111642	CHD4 subnetwork	0.00182461	0.03602719
REACTOME_MYD88_DEPENDENT_CASCADE_INITIATED_ON_TLR4	REACTOME_MYD88_DEPENDENT_CASCADE_INITIATED_ON_TLR4	0.001781	0.036064319
GO:0051224	negative regulation of protein transport	0.00182107	0.036081694
MP:0002499	chronic inflammation	0.00183093	0.03612368
ENSG00000206206	DAXX subnetwork	0.00186305	0.036452096
ENSG00000204209	DAXX subnetwork	0.00186305	0.036506747
ENSG00000206279	DAXX subnetwork	0.00186305	0.036561562
ENSG00000179409	GEMIN4 subnetwork	0.00185592	0.036596386
ENSG00000139144	PIK3C2G subnetwork	0.00186183	0.036616541
ENSG00000198286	CARD11 subnetwork	0.00186979	0.036621824
GO:0002456	T cell mediated immunity	0.00188638	0.036791045
GO:0002695	negative regulation of leukocyte activation	0.00193788	0.037075332
REACTOME_DEATH_RECEPTOR_SIGNALING	REACTOME_DEATH_RECEPTOR_SIGNALING	0.00193115	0.037130178
GO:0010563	negative regulation of phosphorus metabolic process	0.00192051	0.037147103
REACTOME_EXTRINSIC_PATHWAY_FOR_APOPTOSIS	REACTOME_EXTRINSIC_PATHWAY_FOR_APOPTOSIS	0.00193115	0.037185185
GO:0045936	negative regulation of phosphate metabolic process	0.00192051	0.037202381
ENSG00000165025	SYK subnetwork	0.00192961	0.037240356
ENSG00000077238	IL4R subnetwork	0.00191924	0.037257824
ENSG00000198821	CD247 subnetwork	0.00194869	0.037315634
ENSG00000134352	IL6ST subnetwork	0.00195038	0.037334315
ENSG00000206229	ENSG00000206229 subnetwork	0.00197236	0.037335286
ENSG00000204257	HLA-DMA subnetwork	0.00197236	0.037390029
GO:0042100	B cell proliferation	0.0019643	0.037426471
MP:0002831	absent Peyer's patches	0.00199234	0.037426901
ENSG00000206293	ENSG00000206293 subnetwork	0.00197236	0.037444934
MP:0001874	acanthosis	0.00200158	0.037664234
GO:0045815	positive regulation of gene expression, epigenetic	0.00200457	0.037682216

ENSG00000105229	PIAS4 subnetwork	0.00204066	0.038282387
GO:0046425	regulation of JAK-STAT cascade	0.00204896	0.038372093
ENSG00000168685	IL7R subnetwork	0.00207475	0.038405797
MP:0002459	abnormal B cell physiology	0.0020623	0.038461538
ENSG00000113594	LIFR subnetwork	0.00207966	0.038567294
ENSG00000178950	GAK subnetwork	0.00210627	0.038920863
GO:0042035	regulation of cytokine biosynthetic process	0.00210334	0.038976945
ENSG00000189162	ENSG00000189162 subnetwork	0.00210296	0.039033189
GO:0000988	protein binding transcription factor activity	0.00212311	0.03908046
ENSG00000187266	EPOR subnetwork	0.00210258	0.039089595
MP:0008752	abnormal tumor necrosis factor level	0.00213391	0.039167862
GO:0046639	negative regulation of alpha-beta T cell differentiation	0.0021356	0.039183381
KEGG_HEMATOPOIETIC_CELL_	KEGG_HEMATOPOIETIC_CELL_LINEAGE	0.00214397	0.039270386
GO:2000106	regulation of leukocyte apoptotic process	0.00214502	0.039285714
GO:0002683	negative regulation of immune system process	0.00217946	0.039800285
GO:0045637	regulation of myeloid cell differentiation	0.00219235	0.04002849
MP:0002423	abnormal mast cell physiology	0.00221942	0.040327169
ENSG00000004059	ARF5 subnetwork	0.00223499	0.040638298
ENSG00000120949	TNFRSF8 subnetwork	0.00223003	0.040696023
ENSG00000112033	PPARD subnetwork	0.00224423	0.04072238
GO:0043383	negative T cell selection	0.00225125	0.041018388
ENSG00000173039	RELA subnetwork	0.00228749	0.041596045
ENSG00000140009	ESR2 subnetwork	0.00229989	0.041607898
REACTOME_PD:1_SIGNALING	REACTOME_PD:1_SIGNALING	0.00230983	0.041690141
ENSG00000011405	PIK3C2A subnetwork	0.00231935	0.041701828
MP:0004953	decreased spleen weight	0.00232818	0.041713483
ENSG00000168040	FADD subnetwork	0.0023463	0.041865358
GO:0050708	regulation of protein secretion	0.00235067	0.041876751
MP:0008682	decreased interleukin-17 secretion	0.00236625	0.042039106
ENSG00000105197	TIMM50 subnetwork	0.00236385	0.042097902
REACTOME_SIGNALING_BY_EF	REACTOME_SIGNALING_BY_ERBB4	0.00238921	0.042398884
ENSG00000204273	ENSG00000204273 subnetwork	0.00241589	0.042698192
ENSG00000168399	ENSG00000168399 subnetwork	0.00241589	0.04275766
ENSG00000102871	TRADD subnetwork	0.00244638	0.043194444
GO:0051090	regulation of sequence-specific DNA binding transcription f	0.0024647	0.043481276
MP:0005334	abnormal fat pad morphology	0.00249523	0.043517241
ENSG00000117461	PIK3R3 subnetwork	0.00251052	0.043552812
MP:0008478	increased spleen white pulp amount	0.00248974	0.043568465
GO:0009306	protein secretion	0.00249454	0.043577348
GO:0010627	regulation of intracellular protein kinase cascade	0.00250854	0.043612637
ENSG00000215301	DDX3X subnetwork	0.00248687	0.043628809
GO:0050730	regulation of peptidyl-tyrosine phosphorylation	0.00251937	0.043630137
MP:0001245	thick dermal layer	0.00250824	0.043672627
GO:0030890	positive regulation of B cell proliferation	0.002504	0.043732782
GO:0030888	regulation of B cell proliferation	0.00253607	0.043980848
ENSG00000073009	IKBKG subnetwork	0.00254803	0.044193989
MP:0000333	decreased bone marrow cell number	0.00258887	0.044550409
MP:0008022	dilated heart ventricle	0.00257943	0.044611187
GO:0042326	negative regulation of phosphorylation	0.00262322	0.044829932
MP:0008101	lymph node hypoplasia	0.00262914	0.044836957
MP:0005079	defective cytotoxic T cell cytolysis	0.00264567	0.045115332
ENSG00000160712	IL6R subnetwork	0.00266163	0.045392954
MP:0005465	abnormal T-helper 1 physiology	0.00266595	0.045466847

GO:0002020	protease binding	0.00267717	0.045675676
REACTOME_ACTIVATED_TLR4	REACTOME_ACTIVATED_TLR4_SIGNALLING	0.00269777	0.045760431
ENSG00000069399	BCL3 subnetwork	0.00269541	0.045822102
GO:0045428	regulation of nitric oxide biosynthetic process	0.00269453	0.045883941
GO:0045136	development of secondary sexual characteristics	0.00271491	0.045967742
MP:0000359	abnormal mast cell morphology	0.00271904	0.046040268
GO:0042108	positive regulation of cytokine biosynthetic process	0.00273762	0.046179625
GO:0007259	JAK-STAT cascade	0.00274739	0.046251673
MP:0006271	abnormal involution of the mammary gland	0.00275512	0.046256684
ENSG00000077549	CAPZB subnetwork	0.00277378	0.046595461
ENSG00000114030	KPNA1 subnetwork	0.00277957	0.046733333
ENSG00000054267	ARID4B subnetwork	0.00278163	0.046804261
KEGG_ALLOGRAFT_REJECTION	KEGG_ALLOGRAFT_REJECTION	0.00279087	0.04687915
GO:0001772	immunological synapse	0.00278888	0.046941489
MP:0000198	hypophosphatemia	0.00282332	0.047480106
ENSG00000161203	AP2M1 subnetwork	0.002834	0.047483444
MP:0008522	abnormal lymph node germinal center morphology	0.00284187	0.047685185
MP:0008673	decreased interleukin-13 secretion	0.00285556	0.047886394
ENSG00000085760	MTIF2 subnetwork	0.00286787	0.047894737
MP:0002941	increased circulating alanine transaminase level	0.00286172	0.047957839
ENSG00000146232	NFKBIE subnetwork	0.0028595	0.048021108
MP:0004794	increased anti-nuclear antigen antibody level	0.00290929	0.048357424
ENSG00000143190	POU2F1 subnetwork	0.00294954	0.048368146
ENSG00000182481	KPNA2 subnetwork	0.0029489	0.048431373
ENSG00000159110	IFNAR2 subnetwork	0.00295465	0.048435463
ENSG00000215769	ENSG00000215769 subnetwork	0.0029489	0.048494764
ENSG00000142453	CARM1 subnetwork	0.00294275	0.04855643
MP:0008254	increased megakaryocyte cell number	0.00294829	0.048558322
ENSG00000111802	TDP2 subnetwork	0.00299696	0.048636364
MP:0006414	decreased T cell apoptosis	0.00300362	0.048638132
MP:0008827	abnormal thymus cell ratio	0.00299083	0.04869961
ENSG00000116678	LEPR subnetwork	0.00301173	0.048704663
MP:0005425	increased macrophage cell number	0.00299038	0.048763021
ENSG00000124587	PEX6 subnetwork	0.00303212	0.048900388
ENSG00000161955	TNFSF13 subnetwork	0.00303811	0.048966408
ENSG00000134470	IL15RA subnetwork	0.00306914	0.048971722
REACTOME_REGULATED_PROT	REACTOME_REGULATED_PROTEOLYSIS_OF_P75NTR	0.0030689	0.049034749
ENSG00000148737	TCF7L2 subnetwork	0.00305906	0.049096774
ENSG00000003400	CASP10 subnetwork	0.00306871	0.049097938
GO:0043900	regulation of multi-organism process	0.00307598	0.049101412
ENSG00000113494	PRLR subnetwork	0.0031155	0.049615385
GO:0045621	positive regulation of lymphocyte differentiation	0.00313466	0.049807939
ENSG00000127616	SMARCA4 subnetwork	0.0031473	0.050063939
ENSG00000033800	PIAS1 subnetwork	0.00316014	0.050127551
GO:0070231	T cell apoptotic process	0.00315775	0.050191571
GO:0042107	cytokine metabolic process	0.00317647	0.050254777
MP:0008044	increased NK cell number	0.00318618	0.050445293
ENSG00000185291	IL3RA subnetwork	0.00323788	0.050886076
GO:0042523	positive regulation of tyrosine phosphorylation of Stat5 pro	0.00321941	0.05095057
MP:0008186	increased pro-B cell number	0.00321248	0.050951777
GO:0032689	negative regulation of interferon-gamma production	0.00320558	0.050952986
GO:0043566	structure-specific DNA binding	0.00325001	0.051011378
MP:0008050	decreased memory T cell number	0.00326101	0.051073232

ENSG00000101017	CD40 subnetwork	0.00328713	0.051259446
REACTOME_VIRAL_DSRNATLR3TRIF_COMPLEX_ACTIVATES	REACTOME_VIRAL_DSRNATLR3TRIF_COMPLEX_ACTIVATES	0.00330006	0.051320755
GO:0045061	thymic T cell selection	0.00328677	0.051324086
ENSG00000121879	PIK3CA subnetwork	0.00333285	0.051378446
GO:0004896	cytokine receptor activity	0.00331209	0.051380176
ENSG00000213625	LEPROT subnetwork	0.00330998	0.051444724
REACTOME_TOLL_LIKE_RECEPTOR_9_TLR9_CASCADE	REACTOME_TOLL_LIKE_RECEPTOR_9_TLR9_CASCADE	0.0033704	0.05175
REACTOME_MYD88:INDEPENDENT_CASCADE_INITIATED_C	REACTOME_MYD88:INDEPENDENT_CASCADE_INITIATED_C	0.00335324	0.051814768
MP:0008045	decreased NK cell number	0.00337991	0.051935081
ENSG00000117400	MPL subnetwork	0.00339476	0.052244389
GO:0005125	cytokine activity	0.00346773	0.053175592
ENSG00000170260	ZNF212 subnetwork	0.0035211	0.053390875
ENSG00000145623	OSMR subnetwork	0.0035158	0.053399258
ENSG00000112964	GHR subnetwork	0.00349502	0.053411911
MP:0000604	amyloidosis	0.00349439	0.053416149
GO:0002429	immune response-activating cell surface receptor signaling	0.00348557	0.053420398
REACTOME_PLC:GAMMA1_SIGNALING	REACTOME_PLC:GAMMA1_SIGNALING	0.00352063	0.05345679
ENSG00000137070	IL11RA subnetwork	0.0035158	0.053465347
ENSG00000107643	MAPK8 subnetwork	0.00350876	0.053469641
ENSG00000108861	DUSP3 subnetwork	0.00352557	0.053509852
REACTOME_TOLL_LIKE_RECEPTOR_3_TLR3_CASCADE	REACTOME_TOLL_LIKE_RECEPTOR_3_TLR3_CASCADE	0.00354373	0.053558282
REACTOME_TRIF_MEDIATED_TLR3_SIGNALING	REACTOME_TRIF_MEDIATED_TLR3_SIGNALING	0.00354373	0.053624079
MP:0002407	abnormal double-negative T cell morphology	0.0035364	0.053628536
ENSG00000106367	AP1S1 subnetwork	0.00359107	0.053850856
ENSG00000151849	CENPJ subnetwork	0.00358411	0.053916769
GO:0009897	external side of plasma membrane	0.00357757	0.053982843
GO:0002711	positive regulation of T cell mediated immunity	0.00364746	0.054121212
ENSG00000162594	IL23R subnetwork	0.00363058	0.054136253
ENSG00000119535	CSF3R subnetwork	0.00362572	0.054141291
REACTOME_GENERATION_OF_SECOND_MESSENGER_MOL	REACTOME_GENERATION_OF_SECOND_MESSENGER_MOL	0.00368214	0.054151625
ENSG00000114166	KAT2B subnetwork	0.0036474	0.054186893
GO:0031343	positive regulation of cell killing	0.00362569	0.054207317
MP:0004742	abnormal vestibular system physiology	0.00368136	0.054216867
ENSG00000183763	TRAIP subnetwork	0.00367136	0.054227053
ENSG00000179344	HLA-DQB1 subnetwork	0.00364608	0.054252734
MP:0002412	increased susceptibility to bacterial infection	0.00362503	0.054273504
ENSG00000166681	NGFRAP1 subnetwork	0.00368102	0.054282268
GO:0051222	positive regulation of protein transport	0.00366665	0.054292624
ENSG00000139613	SMARCC2 subnetwork	0.00366506	0.054358354
GO:0050866	negative regulation of cell activation	0.00374396	0.054491018
GO:0051248	negative regulation of protein metabolic process	0.00373504	0.054496403
REACTOME_TAK1_ACTIVATES_NFKB_BY_PHOSPHORYLATION	REACTOME_TAK1_ACTIVATES_NFKB_BY_PHOSPHORYLATION	0.00372409	0.054501801
ENSG00000104856	RELB subnetwork	0.00372231	0.054567308
MP:0008681	increased interleukin-17 secretion	0.00377255	0.054784689
ENSG00000126562	WNK4 subnetwork	0.00385245	0.054976303
ENSG00000110324	IL10RA subnetwork	0.00384545	0.054982206
MP:0008723	impaired eosinophil recruitment	0.00380942	0.055017921
MP:0010766	abnormal NK cell physiology	0.00384495	0.055047506
ENSG00000004478	FKBP4 subnetwork	0.00382089	0.055065554
ENSG00000131724	IL13RA1 subnetwork	0.00381857	0.055071599
ENSG00000010610	CD4 subnetwork	0.00384034	0.055112961
GO:0050714	positive regulation of protein secretion	0.00382703	0.055119048
ENSG00000081985	IL12RB2 subnetwork	0.00386554	0.055147929

MP:0008699	increased interleukin-4 secretion	0.00390071	0.055378251
MP:0002664	decreased circulating adrenocorticotropin level	0.00390989	0.055430933
REACTOME_CD28_CO:STIMUL	REACTOME_CD28_CO:STIMULATION	0.00394006	0.05571934
GO:0031435	mitogen-activated protein kinase kinase binding	0.00395404	0.055948174
MP:0005166	decreased susceptibility to injury	0.00396555	0.056058824
GO:0032655	regulation of interleukin-12 production	0.00398571	0.056286722
ENSG00000124334	IL9R subnetwork	0.00399747	0.056330598
GO:0042509	regulation of tyrosine phosphorylation of STAT protein	0.00399092	0.056396714
GO:0032615	interleukin-12 production	0.00403594	0.056425234
ENSG00000122756	CNTFR subnetwork	0.0040256	0.056432749
GO:0034097	response to cytokine stimulus	0.00402007	0.056440281
ENSG00000170345	FOS subnetwork	0.00405973	0.056592765
ENSG00000135341	MAP3K7 subnetwork	0.004081	0.056686047
REACTOME_SIGNALING_BY_N	REACTOME_SIGNALING_BY_NOTCH	0.00407641	0.05669383
ENSG00000171791	BCL2 subnetwork	0.00407524	0.056759907
MP:0008466	enlarged mesenteric lymph nodes	0.00415995	0.057589803
ENSG00000172175	MALT1 subnetwork	0.00415173	0.057656613
GO:0048535	lymph node development	0.00414423	0.057665505
ENSG00000206240	HLA-DRB1 subnetwork	0.00420593	0.057997699
MP:0000172	abnormal bone marrow cell number	0.00418743	0.058034682
MP:0009543	abnormal thymus corticomedullary boundary morphology	0.00421182	0.058045977
ENSG00000206306	HLA-DRB1 subnetwork	0.00420593	0.058064516
ENSG00000160791	CCR5 subnetwork	0.00420127	0.058073818
MP:0005010	abnormal CD8-positive T cell morphology	0.00418604	0.058101852
ENSG00000215778	ENSG00000215778 subnetwork	0.00420127	0.058140878
MP:0004185	abnormal adipocyte glucose uptake	0.00424752	0.058295195
ENSG00000064835	POU1F1 subnetwork	0.00425666	0.058342857
ENSG00000203747	FCGR3A subnetwork	0.00424398	0.05836197
GO:0001912	positive regulation of leukocyte mediated cytotoxicity	0.00424364	0.058428899
GO:0030218	erythrocyte differentiation	0.00426362	0.058447489
ENSG00000078142	PIK3C3 subnetwork	0.00424315	0.058495982
MP:0004751	increased length of allograft survival	0.00430347	0.058779932
GO:0034105	positive regulation of tissue remodeling	0.00430961	0.058826879
ENSG00000102554	KLF5 subnetwork	0.00432739	0.058987486
MP:0005012	decreased eosinophil cell number	0.004393	0.059410431
ENSG00000159128	IFNGR2 subnetwork	0.00438073	0.059421112
MP:0004151	decreased circulating iron level	0.00437908	0.059488636
GO:0005070	SH3/SH2 adaptor activity	0.00440836	0.059569649
GO:0008757	S-adenosylmethionine-dependent methyltransferase activi	0.00441094	0.059728507
ENSG00000100603	SNW1 subnetwork	0.00446507	0.060112994
GO:0004879	ligand-activated sequence-specific DNA binding RNA polym	0.00448771	0.060383747
MP:0005312	pericardial effusion	0.00450353	0.06048478
MP:0002446	abnormal macrophage morphology	0.00453096	0.061011236
GO:0006310	DNA recombination	0.00452188	0.061036036
MP:0004905	decreased uterus weight	0.00452726	0.061079865
ENSG00000185247	MAGEA11 subnetwork	0.00457402	0.061086226
GO:0071345	cellular response to cytokine stimulus	0.0045398	0.061111111
ENSG00000138095	LRPPRC subnetwork	0.00455722	0.061154709
ENSG00000137074	APTX subnetwork	0.00463276	0.061620112
MP:0010308	decreased tumor latency	0.00463085	0.061689038
GO:0046637	regulation of alpha-beta T cell differentiation	0.00464742	0.061830357
ENSG00000197045	GMFB subnetwork	0.00466918	0.06187291
ENSG00000115290	GRB14 subnetwork	0.00470837	0.062055556

ENSG00000016402	IL20RA subnetwork	0.00470434	0.062068966
KEGG_LEUKOCYTE_TRANSEND	KEGG_LEUKOCYTE_TRANSENDOTHELIAL_MIGRATION	0.00468528	0.062138085
MP:0010249	lactation failure	0.0047419	0.062208657
GO:0001954	positive regulation of cell-matrix adhesion	0.00476475	0.062236988
ENSG000000115317	HTRA2 subnetwork	0.00475816	0.062305987
GO:0002768	immune response-regulating cell surface receptor signaling	0.00478479	0.06244469
ENSG000000100368	CSF2RB subnetwork	0.00478901	0.062486188
ENSG000000123496	IL13RA2 subnetwork	0.00484396	0.062871287
ENSG000000164485	IL22RA2 subnetwork	0.00484396	0.062940529
ENSG000000103522	IL21R subnetwork	0.00484396	0.063009923
GO:0051052	regulation of DNA metabolic process	0.004841	0.06307947
MP:0001869	pancreas inflammation	0.00487687	0.063186813
ENSG000000135972	MRPS9 subnetwork	0.00491215	0.063307777
ENSG000000027697	IFNGR1 subnetwork	0.00492224	0.063318777
ENSG000000185436	IL28RA subnetwork	0.00488929	0.063336992
REACTOME_CTLA4_INHIBITOR	REACTOME_CTLA4_INHIBITORY_SIGNALING	0.00494917	0.063344227
ENSG000000186416	NKRF subnetwork	0.00491675	0.063347921
GO:0010608	posttranscriptional regulation of gene expression	0.00493721	0.063358779
MP:0003721	increased tumor growth/size	0.00490951	0.063377193
MP:0001952	increased airway responsiveness	0.0049199	0.063387978
GO:0042169	SH2 domain binding	0.00502699	0.064332248
ENSG000000196735	HLA-DQA1 subnetwork	0.00505107	0.064355363
GO:0016791	phosphatase activity	0.00502317	0.064402174
REACTOME_PHOSPHORYLATIC	REACTOME_PHOSPHORYLATION_OF_CD3_AND_TCR_ZETA	0.0050459	0.064425163
ENSG000000142677	IL22RA1 subnetwork	0.00501873	0.064472252
GO:0007595	lactation	0.00509701	0.065313853
MP:0009763	increased sensitivity to induced morbidity/mortality	0.00512492	0.065567568
ENSG000000167670	CHAF1A subnetwork	0.00516842	0.066019417
ENSG000000102606	ARHGEF7 subnetwork	0.00516697	0.066036717
ENSG000000204390	HSPA1L subnetwork	0.00517735	0.066056034
GO:0043966	histone H3 acetylation	0.00519681	0.066146394
REACTOME_CD28_DEPENDEN	REACTOME_CD28_DEPENDENT_VAV1_PATHWAY	0.00521875	0.066165414
ENSG000000100266	PACSIN2 subnetwork	0.00521081	0.066236559
ENSG000000137841	PLCB2 subnetwork	0.00533926	0.066666667
ENSG000000108604	SMARCD2 subnetwork	0.00530935	0.066720257
ENSG000000198954	KIAA1279 subnetwork	0.00533343	0.066737968
GO:0032703	negative regulation of interleukin-2 production	0.00535151	0.066755603
ENSG000000159113	ENSG000000159113 subnetwork	0.00532072	0.066755889
GO:0007260	tyrosine phosphorylation of STAT protein	0.00529921	0.066791845
ENSG000000110492	MDK subnetwork	0.0053982	0.067004264
ENSG000000104825	NFKBIB subnetwork	0.00543143	0.067412141
REACTOME_TRANSLOCATION	REACTOME_TRANSLOCATION_OF_ZAP:70_TO_IMMUNOLC	0.00548905	0.067819149
MP:0005036	diarrhea	0.00549929	0.067993631
GO:0008301	DNA binding, bending	0.0054969	0.068065887
MP:0008182	decreased marginal zone B cell number	0.00551992	0.068273305
REACTOME_A_THIRD_PROTEO	REACTOME_A_THIRD_PROTEOLYTIC_CLEAVAGE_RELEASES	0.00551802	0.068292683
GO:0046625	sphingolipid binding	0.00556425	0.068783069
ENSG000000049618	ARID1B subnetwork	0.00561472	0.06906019
ENSG000000071539	TRIP13 subnetwork	0.00559451	0.069133192
GO:0002720	positive regulation of cytokine production involved in immu	0.0056688	0.069222689
ENSG000000206308	HLA-DRA subnetwork	0.00563339	0.069230769
REACTOME_REGULATION_OF	REACTOME_REGULATION_OF_IFNG_SIGNALING	0.00565111	0.069242902
GO:0042089	cytokine biosynthetic process	0.00563032	0.069251055

ENSG00000185591	SP1 subnetwork	0.00564785	0.069263158
GO:0032616	interleukin-13 production	0.00570463	0.069832109
ENSG00000012048	BRCA1 subnetwork	0.00575884	0.070230608
MP:0008502	increased IgG3 level	0.00582802	0.070890052
REACTOME_CYTOKINE_SIGNALING_IN_IMMUNE_SYSTEM	REACTOME_CYTOKINE_SIGNALING_IN_IMMUNE_SYSTEM	0.00595128	0.07248954
MP:0002424	abnormal reticulocyte morphology	0.00596071	0.072727273
ENSG00000157557	ETS2 subnetwork	0.00598505	0.072912317
KEGG_AUTOIMMUNE_THYROID_DISEASE	KEGG_AUTOIMMUNE_THYROID_DISEASE	0.00600463	0.073096976
KEGG_GRAFT_VERSUS_HOST_DISEASE	KEGG_GRAFT_VERSUS_HOST_DISEASE	0.00610289	0.07359375
ENSG00000103275	UBE2I subnetwork	0.0061195	0.073673257
MP:0001691	abnormal somite shape	0.00617962	0.073733195
GO:0001906	cell killing	0.00617883	0.073809524
MP:0008721	abnormal chemokine level	0.00618524	0.073811983
ENSG00000151729	SLC25A4 subnetwork	0.00614803	0.073831776
ENSG00000104833	TUBB4A subnetwork	0.00617217	0.07388601
GO:0043122	regulation of I-kappaB kinase/NF-kappaB cascade	0.00614486	0.073908524
ENSG00000112062	MAPK14 subnetwork	0.0061635	0.073910788
ENSG00000083168	KAT6A subnetwork	0.00627009	0.075051546
GO:0042826	histone deacetylase binding	0.00626867	0.075128999
REACTOME_MAPK_TARGETS_NUCLEAR_EVENTS_MEDIATE	REACTOME_MAPK_TARGETS_NUCLEAR_EVENTS_MEDIATE	0.00629034	0.075283213
REACTOME_SIGNALING_BY_PDGF	REACTOME_SIGNALING_BY_PDGF	0.0062976	0.075360082
ENSG00000146950	SHROOM2 subnetwork	0.00636702	0.076180698
ENSG00000075539	FRYL subnetwork	0.00636624	0.076207605
GO:0003690	double-stranded DNA binding	0.00641186	0.076820513
ENSG00000158941	KIAA1967 subnetwork	0.00646119	0.07694274
ENSG00000130382	MLLT1 subnetwork	0.00645617	0.076970317
GO:0003707	steroid hormone receptor activity	0.00645152	0.07704918
GO:0035264	multicellular organism growth	0.00647967	0.07711951
GO:0002709	regulation of T cell mediated immunity	0.00651478	0.077217125
ENSG00000091181	IL5RA subnetwork	0.00650038	0.077244898
ENSG00000072958	AP1M1 subnetwork	0.00653552	0.077342159
GO:0031348	negative regulation of defense response	0.00654667	0.077466938
MP:0008484	decreased spleen germinal center size	0.00656785	0.077489837
GO:0046427	positive regulation of JAK-STAT cascade	0.00657212	0.07751269
GO:0035591	signaling adaptor activity	0.00659627	0.078194726
GO:0004697	protein kinase C activity	0.0066086	0.078216819
MP:0001145	abnormal male reproductive system morphology	0.00664302	0.078564206
MP:0001212	skin lesions	0.00664271	0.078643725
ENSG00000137713	PPP2R1B subnetwork	0.00667931	0.079191919
ENSG00000159216	RUNX1 subnetwork	0.00670419	0.079465187
ENSG00000126261	UBA2 subnetwork	0.00671057	0.079485887
ENSG00000159692	CTBP1 subnetwork	0.00671338	0.079506546
ENSG00000152894	PTPRK subnetwork	0.00672108	0.079527163
ENSG00000061273	HDAC7 subnetwork	0.00676649	0.079759519
ENSG00000087095	NLK subnetwork	0.0067654	0.079839519
REACTOME_NUCLEAR_RECEPTOR_TRANSCRIPTION_PATHWAY	REACTOME_NUCLEAR_RECEPTOR_TRANSCRIPTION_PATHWAY	0.0067577	0.079899497
ENSG00000179958	DCTPP1 subnetwork	0.00676313	0.079919679
ENSG00000206239	ENSG00000206239 subnetwork	0.00682238	0.07997003
MP:0001132	absent mature ovarian follicles	0.00680876	0.07997998
GO:0072160	nephron tubule epithelial cell differentiation	0.00685219	0.07999002
ENSG00000206305	HLA-DQA1 subnetwork	0.00682238	0.08005
ENSG00000096996	IL12RB1 subnetwork	0.00687101	0.080209372
GO:0002262	myeloid cell homeostasis	0.00689087	0.080577689

ENSG00000169047	IRS1 subnetwork	0.00695997	0.081013917
ENSG00000168214	RBPJ subnetwork	0.00695118	0.081044776
MP:0008181	increased marginal zone B cell number	0.00697078	0.081181728
ENSG00000147145	LPAR4 subnetwork	0.00704025	0.082029703
ENSG00000188404	SELL subnetwork	0.00703077	0.082061447
MP:0004992	increased bone resorption	0.00702967	0.082142857
ENSG00000142208	AKT1 subnetwork	0.00709801	0.082344214
MP:0000208	decreased hematocrit	0.00711783	0.082411067
ENSG00000196700	ZNF512B subnetwork	0.00715775	0.082593688
ENSG00000065361	ERBB3 subnetwork	0.00714315	0.082625864
ENSG00000172115	CYCS subnetwork	0.00723386	0.08320197
ENSG00000082074	FYB subnetwork	0.0072628	0.083366142
ENSG00000197943	PLCG2 subnetwork	0.0073083	0.08387414
MP:0002420	abnormal adaptive immunity	0.00732418	0.084086444
MP:0000611	jaundice	0.00742485	0.085574092
ENSG00000198380	GFPT1 subnetwork	0.00744891	0.085798237
ENSG00000170365	SMAD1 subnetwork	0.00744277	0.085833333
MP:0005362	abnormal Langerhans cell physiology	0.00749484	0.08630137
MP:0000511	abnormal intestinal mucosa morphology	0.00751125	0.086363636
GO:0031349	positive regulation of defense response	0.00754481	0.086669922
ENSG00000089693	MLF2 subnetwork	0.00758426	0.086878049
ENSG00000149177	PTPRJ subnetwork	0.00763202	0.087341772
ENSG00000198223	CSF2RA subnetwork	0.00762934	0.087426901
ENSG00000145715	RASA1 subnetwork	0.00770981	0.087887597
ENSG00000105401	CDC37 subnetwork	0.00770694	0.087972842
GO:0002861	regulation of inflammatory response to antigenic stimulus	0.00768195	0.087986381
ENSG00000101096	NFATC2 subnetwork	0.00773877	0.08804453
GO:0045060	negative thymic T cell selection	0.00770635	0.088058252
ENSG00000152382	TADA1 subnetwork	0.00775541	0.088067633
GO:0051220	cytoplasmic sequestering of protein	0.00770523	0.088143829
MP:0000321	increased bone marrow cell number	0.00775254	0.088152805
GO:0000790	nuclear chromatin	0.00782063	0.088706564
GO:0035258	steroid hormone receptor binding	0.00783812	0.088717454
MP:0008826	abnormal splenic cell ratio	0.00784737	0.088776493
ENSG00000153563	CD8A subnetwork	0.00788107	0.089124158
GO:0019838	growth factor binding	0.00797046	0.089759615
MP:0008560	increased tumor necrosis factor secretion	0.00802789	0.090047847
GO:0002761	regulation of myeloid leukocyte differentiation	0.00799594	0.090057637
ENSG00000127314	RAP1B subnetwork	0.00802439	0.090086207
MP:0001601	abnormal myelopoiesis	0.00800774	0.090163148
ENSG00000103342	GSPT1 subnetwork	0.00802418	0.090172579
GO:0045622	regulation of T-helper cell differentiation	0.00804574	0.090200765
GO:0034101	erythrocyte homeostasis	0.00811124	0.090544413
ENSG00000138385	SSB subnetwork	0.00814404	0.09056244
ENSG00000154016	GRAP subnetwork	0.00813711	0.090648855
GO:0051054	positive regulation of DNA metabolic process	0.00822555	0.091207224
ENSG00000149923	PPP4C subnetwork	0.00821688	0.091285714
MP:0002417	abnormal megakaryocyte morphology	0.00822402	0.091294006
GO:0003746	translation elongation factor activity	0.00826892	0.091500475
KEGG_PRIMARY_IMMUNODEF	KEGG_PRIMARY_IMMUNODEFICIENCY	0.00828759	0.091650854
ENSG00000127947	PTPN12 subnetwork	0.0083043	0.091706161
ENSG00000147202	DIAPH2 subnetwork	0.00832778	0.091729679
GO:0071634	regulation of transforming growth factor beta production	0.0083254	0.091816462

MP:0000377	abnormal hair follicle morphology	0.00835274	0.091879131
GO:0071604	transforming growth factor beta production	0.0083254	0.091903409
MP:0008214	increased immature B cell number	0.00838298	0.092169811
MP:0005150	cachexia	0.00841172	0.092318567
MP:0005093	decreased B cell proliferation	0.00844591	0.092467043
ENSG00000186951	PPARA subnetwork	0.00845361	0.092521167
GO:0030316	osteoclast differentiation	0.00853429	0.093327068
GO:0070664	negative regulation of leukocyte proliferation	0.00855515	0.093615023
ENSG00000101210	EEF1A2 subnetwork	0.0085989	0.093949343
GO:0007249	I-kappaB kinase/NF-kappaB cascade	0.00862708	0.093960674
KEGG_TYPE_I_DIABETES_MELLITUS	KEGG_TYPE_I_DIABETES_MELLITUS	0.00861865	0.094001874
MP:0004993	decreased bone resorption	0.00867014	0.094293732
MP:0001802	arrested B cell differentiation	0.00869807	0.094351074
ENSG00000065989	PDE4A subnetwork	0.00867993	0.094439252
ENSG00000076984	MAP2K7 subnetwork	0.00874029	0.094599628
MP:0002673	abnormal sperm number	0.00872698	0.094636194
ENSG00000157168	NRG1 subnetwork	0.00873784	0.094687791
REACTOME_TOLL_LIKE_RECEP	REACTOME_TOLL_LIKE_RECEPTOR_4_TLR4_CASCADE	0.0088369	0.09572093
GO:0006730	one-carbon metabolic process	0.00886964	0.095868152
GO:0043030	regulation of macrophage activation	0.00886748	0.095910781
MP:0002891	increased insulin sensitivity	0.00895468	0.097356215
GO:0006809	nitric oxide biosynthetic process	0.00897545	0.097405005
MP:0008828	abnormal lymph node cell ratio	0.00901024	0.097685185
REACTOME_CHEMOKINE_RECEP	REACTOME_CHEMOKINE_RECEPTORS_BIND_CHEMOKINES	0.00902184	0.09773358
ENSG00000170581	STAT2 subnetwork	0.00904185	0.098151571
ENSG00000163823	CCR1 subnetwork	0.00906696	0.098153278
GO:0016568	chromatin modification	0.00911101	0.098293358
ENSG00000091127	PUS7 subnetwork	0.00912414	0.098294931
GO:0032154	cleavage furrow	0.00913382	0.098296501
ENSG00000123908	EIF2C2 subnetwork	0.00920295	0.098850046
KEGG_LEISHMANIA_INFECTION	KEGG_LEISHMANIA_INFECTION	0.00932778	0.100275735
ENSG00000166167	BTRC subnetwork	0.00940654	0.101101928
MP:0005659	decreased susceptibility to diet-induced obesity	0.00942418	0.101146789
ENSG00000160014	CALM3 subnetwork	0.00955121	0.10209854
GO:0008170	N-methyltransferase activity	0.00951072	0.102108158
ENSG00000147065	MSN subnetwork	0.00959936	0.102185792
MP:0002408	abnormal double-positive T cell morphology	0.00958193	0.102187785
ENSG00000198668	CALM1 subnetwork	0.00955121	0.102191781
ENSG00000143933	CALM2 subnetwork	0.00955121	0.102285192
ENSG00000206505	HLA-A subnetwork	0.00954648	0.102333028
ENSG00000110448	CD5 subnetwork	0.0095354	0.102380952
ENSG00000180176	TH subnetwork	0.0096936	0.103184713
GO:0016569	covalent chromatin modification	0.00977638	0.10417802
GO:0016493	C-C chemokine receptor activity	0.00977069	0.104227273
MP:0002680	decreased corpora lutea number	0.0098005	0.104261106
KEGG_TYPE_II_DIABETES_MELLITUS	KEGG_TYPE_II_DIABETES_MELLITUS	0.00979591	0.104310345
MP:0008537	increased susceptibility to induced colitis	0.00984486	0.104574275
MP:0008596	increased circulating interleukin-6 level	0.00990431	0.105113122
GO:0017148	negative regulation of translation	0.00991493	0.105198915
REACTOME_EFFECTS_OF_PIP2	REACTOME_EFFECTS_OF_PIP2_HYDROLYSIS	0.00993975	0.105420054
ENSG00000096060	FKBP5 subnetwork	0.00999202	0.106272563
MP:0004808	abnormal hematopoietic stem cell morphology	0.01009081	0.107303877
GO:0040029	regulation of gene expression, epigenetic	0.01015461	0.107927928

ENSG00000166949	SMAD3 subnetwork	0.01026494	0.108910891
GO:0019221	cytokine-mediated signaling pathway	0.01030463	0.108939802
REACTOME_NUCLEAR_EVENTS	REACTOME_NUCLEAR_EVENTS_KINASE_AND_TRANSCRIPT	0.01028857	0.108992806
GO:0030522	intracellular receptor mediated signaling pathway	0.01036025	0.109058296
ENSG00000141736	ERBB2 subnetwork	0.01035271	0.109111311
ENSG00000161021	MAML1 subnetwork	0.01039696	0.109408602
ENSG0000017797	RALBP1 subnetwork	0.01041375	0.109444942
ENSG00000102241	HTATSF1 subnetwork	0.01051635	0.110644007
ENSG00000074211	PPP2R2C subnetwork	0.01053849	0.110723861
GO:0002755	MyD88-dependent toll-like receptor signaling pathway	0.01056679	0.1109375
ENSG00000156587	UBE2L6 subnetwork	0.01059873	0.111284567
GO:0034103	regulation of tissue remodeling	0.01062551	0.111398041
GO:0050777	negative regulation of immune response	0.01067067	0.111476868
GO:0051861	glycolipid binding	0.01062127	0.111497326
GO:0050728	negative regulation of inflammatory response	0.01068585	0.111555556
REACTOME_CD28_DEPENDENT	REACTOME_CD28_DEPENDENT_PI3KAKT_SIGNALING	0.01069305	0.111589698
MP:0004919	abnormal positive T cell selection	0.01070549	0.111801242
ENSG00000198851	CD3E subnetwork	0.01074325	0.112278369
ENSG00000120910	PPP3CC subnetwork	0.01077691	0.112666076
MP:0009583	increased keratinocyte proliferation	0.01080448	0.112876106
MP:0002655	abnormal keratinocyte morphology	0.0108763	0.112951542
GO:0004721	phosphoprotein phosphatase activity	0.01082085	0.112953139
GO:0034134	toll-like receptor 2 signaling pathway	0.01084725	0.112985866
ENSG00000107338	SHB subnetwork	0.01086851	0.113007055
ENSG00000169750	RAC3 subnetwork	0.01086571	0.113018535
MP:0008076	abnormal CD4-positive T cell differentiation	0.01095878	0.113512324
ENSG00000164362	TERT subnetwork	0.01099201	0.113764292
MP:0002458	abnormal B cell number	0.01104235	0.113859649
MP:0005094	abnormal T cell proliferation	0.01103405	0.113871817
MP:0011353	expanded mesangial matrix	0.01103118	0.11397188
ENSG00000116560	SFPQ subnetwork	0.01106375	0.114022787
ENSG00000126785	RHOJ subnetwork	0.01111086	0.114304462
GO:0034130	toll-like receptor 1 signaling pathway	0.01110971	0.114360771
ENSG00000132906	CASP9 subnetwork	0.01120178	0.115078671
MP:0001346	abnormal lacrimal gland morphology	0.01124548	0.115327511
ENSG00000143171	RXRG subnetwork	0.01126072	0.115357766
ENSG00000152234	ATP5A1 subnetwork	0.01131273	0.11586748
GO:0005720	nuclear heterochromatin	0.01134021	0.115897213
ENSG00000064300	NGFR subnetwork	0.01137478	0.116
MP:0005578	teratozoospermia	0.01136414	0.116057441
ENSG00000166484	MAPK7 subnetwork	0.01139435	0.116246742
ENSG00000080503	SMARCA2 subnetwork	0.01140993	0.116276042
ENSG00000153827	TRIP12 subnetwork	0.01143505	0.116392021
MP:0003333	liver fibrosis	0.01145244	0.116464471
GO:0004709	MAP kinase kinase kinase activity	0.01155651	0.117272727
ENSG00000101040	ZMYND8 subnetwork	0.01157746	0.117301038
ENSG00000157106	SMG1 subnetwork	0.01164393	0.117934313
ENSG00000012124	CD22 subnetwork	0.01169136	0.117989646
MP:0002461	increased immunoglobulin level	0.01167652	0.118005181
ENSG00000196504	PRPF40A subnetwork	0.01179084	0.118283262
MP:0002144	abnormal B cell differentiation	0.01181139	0.118310463
GO:0045910	negative regulation of DNA recombination	0.0117459	0.118346253
ENSG00000125347	IRF1 subnetwork	0.01183416	0.118380463

ENSG00000171223	JUNB subnetwork	0.01177965	0.11838488
GO:0019955	cytokine binding	0.01173124	0.118405172
ENSG00000158769	F11R subnetwork	0.0117777	0.118486672
ENSG00000160584	SIK3 subnetwork	0.01177721	0.11858864
ENSG00000094631	HDAC6 subnetwork	0.01191494	0.119092466
GO:0001067	regulatory region nucleic acid binding	0.01198283	0.119276596
MP:0004774	abnormal bile salt level	0.01193605	0.119289991
GO:0050710	negative regulation of cytokine secretion	0.01195414	0.119299744
ENSG00000172379	ARNT2 subnetwork	0.01197264	0.119309463
MP:0001116	small gonad	0.01200785	0.119312394
GO:0043560	insulin receptor substrate binding	0.0120057	0.119371283
GO:0000975	regulatory region DNA binding	0.01198283	0.119378194
ENSG00000134242	PTPN22 subnetwork	0.01202779	0.119380831
GO:0032733	positive regulation of interleukin-10 production	0.01195403	0.119401709
MP:0005343	increased circulating aspartate transaminase level	0.01197082	0.119411263
ENSG00000177463	NR2C2 subnetwork	0.0120038	0.119430272
ENSG00000149091	DGKZ subnetwork	0.01216929	0.120914479
ENSG00000152518	ZFP36L2 subnetwork	0.01216662	0.120974576
ENSG00000079246	XRCC5 subnetwork	0.01220473	0.121090448
GO:0045727	positive regulation of translation	0.01219847	0.121150592
ENSG00000133124	IRS4 subnetwork	0.01222922	0.121283784
ENSG00000110987	BCL7A subnetwork	0.01226512	0.121290051
ENSG00000067606	PRKCZ subnetwork	0.012253	0.121308017
ENSG00000211790	ENSG00000211790 subnetwork	0.01233124	0.121590909
ENSG00000123416	TUBA1B subnetwork	0.0123168	0.121693345
ENSG00000171148	TADA3 subnetwork	0.01238153	0.121728188
MP:0009321	increased histiocytic sarcoma incidence	0.01235794	0.121764706
REACTOME_SIGNALING_BY_EF	REACTOME_SIGNALING_BY_ERBB2	0.01238133	0.121830395
MP:0008687	increased interleukin-2 secretion	0.01235687	0.121867115
ENSG00000009954	BAZ1B subnetwork	0.01245293	0.122045264
ENSG00000153147	SMARCA5 subnetwork	0.01260941	0.123263598
GO:0051019	mitogen-activated protein kinase binding	0.01260229	0.123324958
ENSG00000177565	TBL1XR1 subnetwork	0.01265684	0.123642439
GO:2000696	regulation of epithelial cell differentiation involved in kidney	0.01264875	0.123745819
ENSG00000185507	IRF7 subnetwork	0.01269449	0.123914858
MP:0004031	insulinitis	0.01273336	0.124186822
MP:0003853	dry skin	0.01286082	0.1255
ENSG00000095015	MAP3K1 subnetwork	0.01289907	0.125770192
GO:0050690	regulation of defense response to virus by virus	0.01297145	0.126289517
ENSG00000104938	CLEC4M subnetwork	0.01300686	0.126910299
GO:0016570	histone modification	0.01300565	0.127015794
ENSG00000185104	FAF1 subnetwork	0.013121	0.127860697
MP:0001929	abnormal gametogenesis	0.01310906	0.127883817
ENSG00000198933	TBKBP1 subnetwork	0.01315648	0.128169014
ENSG00000211799	ENSG00000211799 subnetwork	0.01326268	0.128171334
ENSG00000211739	ENSG00000211739 subnetwork	0.01326268	0.128276999
ENSG00000130589	RP4-697K14.7 subnetwork	0.01323096	0.128305785
ENSG00000211735	ENSG00000211735 subnetwork	0.01326268	0.128382838
GO:0031334	positive regulation of protein complex assembly	0.01322363	0.128411911
REACTOME_ACTIVATED_TAK1	REACTOME_ACTIVATED_TAK1_MEDIATES_P38_MAPK_ACT	0.01320444	0.12843543
ENSG00000211810	ENSG00000211810 subnetwork	0.01326268	0.128488852
GO:0010740	positive regulation of intracellular protein kinase cascade	0.0133784	0.128888889
MP:0002376	abnormal dendritic cell physiology	0.01349326	0.1296875

GO:0045884	regulation of survival gene product expression	0.0135619	0.13032046
ENSG00000196230	TUBB subnetwork	0.01363488	0.130753481
GO:0043901	negative regulation of multi-organism process	0.01365166	0.130851064
ENSG00000183311	TUBB subnetwork	0.01363488	0.130860656
ENSG00000137379	ENSG00000137379 subnetwork	0.01363488	0.130968007
ENSG00000084463	WBP11 subnetwork	0.01361767	0.130993432
ENSG00000167601	AXL subnetwork	0.01372556	0.131602617
GO:0061180	mammary gland epithelium development	0.01376133	0.131673469
ENSG00000100351	GRAP2 subnetwork	0.0137587	0.131740196
MP:0006397	disorganized long bone epiphyseal plate	0.01392117	0.132750203
ENSG00000120709	FAM53C subnetwork	0.01391376	0.132844336
MP:0005342	abnormal intestinal lipid absorption	0.01391893	0.132858306
ENSG00000178562	CD28 subnetwork	0.01391248	0.132911909
ENSG00000022267	FHL1 subnetwork	0.01398912	0.132954545
MP:0008735	increased susceptibility to endotoxin shock	0.01398302	0.133021933
ENSG00000100815	TRIP11 subnetwork	0.01397665	0.13304878
ENSG00000166793	YPEL4 subnetwork	0.01406583	0.133306321
REACTOME_SIGNALLING_BY_N	REACTOME_SIGNALLING_BY_NGF	0.01406471	0.133414436
MP:0008133	decreased Peyer's patch number	0.01413446	0.133576052
ENSG00000169682	SPNS1 subnetwork	0.01412502	0.133684211
ENSG00000160310	PRMT2 subnetwork	0.01418753	0.134074373
MP:0001121	uterus hypoplasia	0.01426737	0.13457189
ENSG00000163029	SMC6 subnetwork	0.01439165	0.1354318
MP:0008396	abnormal osteoclast differentiation	0.01442324	0.135806452
ENSG00000189060	H1F0 subnetwork	0.01445206	0.136019339
GO:0060135	maternal process involved in female pregnancy	0.01447954	0.136392915
ENSG00000160654	CD3G subnetwork	0.01450307	0.136524537
GO:0001909	leukocyte mediated cytotoxicity	0.01454426	0.136856913
ENSG00000103723	AP3B2 subnetwork	0.01456139	0.137068273
ENSG00000105887	MTPN subnetwork	0.01463066	0.137700321
GO:0051092	positive regulation of NF-kappaB transcription factor activit	0.01461913	0.137760835
MP:0002702	decreased circulating free fatty acid level	0.0146295	0.13777065
ENSG00000163512	AZI2 subnetwork	0.01466923	0.13796
MP:0000496	abnormal small intestine morphology	0.01466797	0.138070456
ENSG00000196396	PTPN1 subnetwork	0.01471857	0.138808953
GO:0030914	STAGA complex	0.01476281	0.138977636
GO:0003706	ligand-regulated transcription factor activity	0.01481675	0.139146049
MP:0003667	hemangiosarcoma	0.01483722	0.139282869
ENSG00000108773	KAT2A subnetwork	0.01483489	0.139354067
ENSG00000156273	BACH1 subnetwork	0.0148828	0.139419252
ENSG00000158711	ELK4 subnetwork	0.01488109	0.139450637
GO:0045121	membrane raft	0.01492503	0.139745628
ENSG00000113916	BCL6 subnetwork	0.01497449	0.14
MP:0009339	decreased splenocyte number	0.01496305	0.140031771
ENSG00000198909	MAP3K3 subnetwork	0.01512139	0.141244057
ENSG00000134058	CDK7 subnetwork	0.0151612	0.141257911
MP:0003699	abnormal female reproductive system physiology	0.01511811	0.141276764
GO:0030879	mammary gland development	0.01516092	0.141369755
ENSG00000132669	RIN2 subnetwork	0.01522844	0.141501976
ENSG00000030110	BAK1 subnetwork	0.01525856	0.141627172
ENSG00000067560	RHOA subnetwork	0.01532067	0.14210734
ENSG00000086061	DNAJA1 subnetwork	0.01534976	0.142350158
ENSG00000068615	REEP1 subnetwork	0.01537854	0.142474389

ENSG00000067182	TNFRSF1A subnetwork	0.01541997	0.142604249
ENSG00000108561	C1QBP subnetwork	0.01541698	0.142677165
ENSG00000156136	DCK subnetwork	0.01547781	0.142857143
MP:0004930	small epididymis	0.01550079	0.142941176
ENSG00000108984	MAP2K6 subnetwork	0.01547066	0.142969364
ENSG00000136352	NKX2-1 subnetwork	0.01546613	0.143081761
ENSG00000090863	GLG1 subnetwork	0.01551621	0.143181818
ENSG00000078140	UBE2K subnetwork	0.01552564	0.143187157
ENSG00000111252	SH2B3 subnetwork	0.01558776	0.143320313
ENSG00000146648	EGFR subnetwork	0.01557036	0.143354183
ENSG00000170145	SIK2 subnetwork	0.01560098	0.143364559
GO:0032452	histone demethylase activity	0.01561854	0.143369735
ENSG00000148200	NR6A1 subnetwork	0.01556995	0.14342723
GO:0032153	cell division site	0.01573066	0.143847352
GO:0032155	cell division site part	0.01573066	0.14395947
GO:0042531	positive regulation of tyrosine phosphorylation of STAT pro	0.0157427	0.144007782
GO:0002821	positive regulation of adaptive immune response	0.01589642	0.145341615
ENSG00000161513	FDXR subnetwork	0.01590744	0.145384019
ENSG00000182287	AP1S2 subnetwork	0.0158878	0.145412131
ENSG00000211889	ENSG00000211889 subnetwork	0.01589151	0.145415695
ENSG00000099308	MAST3 subnetwork	0.01592596	0.145426357
REACTOME_NUCLEAR_SIGNAL	REACTOME_NUCLEAR_SIGNALING_BY_ERBB4	0.01599469	0.145859133
MP:0000490	abnormal crypts of Lieberkuhn morphology	0.01598927	0.145933385
GO:0030101	natural killer cell activation	0.01601775	0.146017015
MP:0010378	increased respiratory quotient	0.01621896	0.147720247
ENSG00000099942	CRKL subnetwork	0.01629775	0.148571429
MP:0001932	abnormal spermiogenesis	0.01635027	0.148996914
ENSG00000147010	SH3KBP1 subnetwork	0.01643578	0.149922899
GO:0042269	regulation of natural killer cell mediated cytotoxicity	0.01650966	0.150423077
GO:0002715	regulation of natural killer cell mediated immunity	0.01650966	0.150538876
ENSG00000169083	AR subnetwork	0.01649555	0.150539291
MP:0004969	pale kidney	0.01659917	0.151037663
GO:0060416	response to growth hormone stimulus	0.01663846	0.151304682
GO:0060090	binding, bridging	0.01662812	0.151344086
ENSG00000177606	JUN subnetwork	0.01671133	0.152185583
MP:0001847	brain inflammation	0.01679109	0.153141762
ENSG00000171552	BCL2L1 subnetwork	0.01688937	0.153790199
GO:0051247	positive regulation of protein metabolic process	0.01697471	0.153896104
MP:0008246	abnormal leukocyte morphology	0.01699422	0.153931298
MP:0004762	increased anti-double stranded DNA antibody level	0.01697457	0.154013761
GO:0005097	Rab GTPase activator activity	0.01695732	0.154016832
ENSG00000105662	CRTC1 subnetwork	0.01702095	0.154042715
ENSG00000101665	SMAD7 subnetwork	0.01710443	0.154916159
MP:0000195	hypocalcemia	0.01715079	0.155331302
GO:0008009	chemokine activity	0.01716493	0.155365297
REACTOME_NOD12_SIGNALIN	REACTOME_NOD12_SIGNALING_PATHWAY	0.01724895	0.155922551
GO:0043254	regulation of protein complex assembly	0.01723309	0.155927052
ENSG00000069424	KCNAB2 subnetwork	0.01721495	0.155931559
ENSG00000134107	BHLHE40 subnetwork	0.01727901	0.155951478
ENSG00000121774	KHDRBS1 subnetwork	0.01726048	0.15599393
MP:0008189	increased transitional stage B cell number	0.01734828	0.15658592
ENSG00000126001	CEP250 subnetwork	0.01734314	0.156628788
ENSG00000155926	SLA subnetwork	0.01744492	0.157223903

ENSG00000139921	TMX1 subnetwork	0.01750823	0.157396226
ENSG00000173153	ESRRA subnetwork	0.01751998	0.157503771
GO:0006476	protein deacetylation	0.01749606	0.157515106
GO:0006107	oxaloacetate metabolic process	0.01749224	0.157596372
GO:0043123	positive regulation of I-kappaB kinase/NF-kappaB cascade	0.01766988	0.158854559
ENSG00000137193	PIM1 subnetwork	0.01772673	0.159255079
ENSG00000213923	CSNK1E subnetwork	0.01771218	0.159337349
MP:0008663	increased interleukin-12 secretion	0.01778154	0.159398496
ENSG00000165732	DDX21 subnetwork	0.01789962	0.160255447
MP:0008098	decreased plasma cell number	0.01792129	0.160285285
KEGG_MAPK_SIGNALING_PATHWAY	KEGG_MAPK_SIGNALING_PATHWAY	0.01804185	0.160727682
MP:0001119	abnormal female reproductive system morphology	0.01806315	0.160794603
ENSG00000206503	HLA-A subnetwork	0.01807591	0.16093633
GO:0044212	transcription regulatory region DNA binding	0.0181313	0.161152695
ENSG00000167286	CD3D subnetwork	0.01822927	0.1617713
REACTOME_INTERLEUKIN:7_SIGNALING	REACTOME_INTERLEUKIN:7_SIGNALING	0.01821894	0.161817502
ENSG00000188386	PPP3R2 subnetwork	0.01827595	0.162098581
ENSG00000117560	FASLG subnetwork	0.01838736	0.162788963
ENSG00000109339	MAPK10 subnetwork	0.01838188	0.162910448
ENSG00000092820	EZR subnetwork	0.01851641	0.164157973
ENSG00000135930	EIF4E2 subnetwork	0.01855998	0.164631422
ENSG00000140538	NTRK3 subnetwork	0.01864996	0.16577381
ENSG00000168066	SF1 subnetwork	0.01867676	0.165787519
ENSG00000074966	TXK subnetwork	0.01866796	0.165799257
MP:0006398	increased long bone epiphyseal plate size	0.01875632	0.16644395
GO:0002891	positive regulation of immunoglobulin mediated immune re	0.01884333	0.166678994
ENSG00000112214	FHL5 subnetwork	0.0188058	0.166765579
GO:0002714	positive regulation of B cell mediated immunity	0.01884333	0.166802369
ENSG00000147439	BIN3 subnetwork	0.01882675	0.166814815
GO:0042101	T cell receptor complex	0.0188168	0.166827279
ENSG00000184226	PCDH9 subnetwork	0.01888163	0.166962306
ENSG00000137834	SMAD6 subnetwork	0.01888856	0.167023634
ENSG00000066027	PPP2R5A subnetwork	0.01897688	0.168081181
MP:0000121	failure of tooth eruption	0.01900496	0.16810472
ENSG00000198646	NCOA6 subnetwork	0.0191014	0.168754606
ENSG00000099956	SMARCB1 subnetwork	0.01912001	0.168888071
ENSG00000198604	BAZ1A subnetwork	0.01913383	0.168910964
ENSG00000180209	MYLPF subnetwork	0.01938462	0.171433824
GO:0042994	cytoplasmic sequestering of transcription factor	0.01941289	0.17143906
GO:0045346	regulation of MHC class II biosynthetic process	0.019406	0.17149155
ENSG00000144061	NPHP1 subnetwork	0.01947116	0.171973588
ENSG00000100239	PPP6R2 subnetwork	0.01951743	0.172397361
REACTOME_NUCLEOTIDE:BINDING_DOMAIN_LEUCINE_RIC	REACTOME_NUCLEOTIDE:BINDING_DOMAIN_LEUCINE_RIC	0.01958384	0.172693997
ENSG00000211762	ENSG00000211762 subnetwork	0.01956457	0.172710623
GO:0051607	defense response to virus	0.01960797	0.172750549
MP:0005088	increased acute inflammation	0.01967093	0.173282164
MP:0001787	pericardial edema	0.01970907	0.173304158
ENSG00000072803	FBXW11 subnetwork	0.01969765	0.173357664
REACTOME_P75NTR_SIGNALS_VIA_NF:KB	REACTOME_P75NTR_SIGNALS_VIA_NF:KB	0.01968861	0.173484295
MP:0008215	decreased immature B cell number	0.01981721	0.174052478
MP:0010872	increased trabecular bone mass	0.01984923	0.174326293
MP:0008347	decreased gamma-delta T cell number	0.01988738	0.174672489
ENSG00000105699	LSR subnetwork	0.01994853	0.175272727

REACTOME_MAP_KINASE_ACT	REACTOME_MAP_KINASE_ACTIVATION_IN_TLR_CASCADE	0.0199791	0.175327035
ENSG00000136997	MYC subnetwork	0.02011718	0.176506899
GO:0005527	macrolide binding	0.02017602	0.176630435
ENSG00000185697	MYBL1 subnetwork	0.02014687	0.176632801
ENSG00000100811	YY1 subnetwork	0.02021331	0.176755974
GO:0005528	FK506 binding	0.02017602	0.176758521
ENSG00000070061	IKBKAP subnetwork	0.02025531	0.176917511
MP:0005331	insulin resistance	0.02027785	0.176934201
ENSG00000180855	ZNF443 subnetwork	0.02035537	0.17703677
MP:0003408	increased width of hypertrophic chondrocyte zone	0.02033338	0.177056277
MP:0005621	abnormal cell physiology	0.02032434	0.177075812
ENSG00000162227	TAF6L subnetwork	0.02032388	0.17716763
ENSG00000111605	CPSF6 subnetwork	0.02038822	0.177341499
GO:0016575	histone deacetylation	0.02042489	0.177482014
ENSG00000100181	ENSG00000100181 subnetwork	0.02045188	0.177534148
GO:0004715	non-membrane spanning protein tyrosine kinase activity	0.02042355	0.177609791
GO:0017038	protein import	0.02048103	0.177837644
MP:0008211	decreased mature B cell number	0.0205016	0.177853553
ENSG00000164597	COG5 subnetwork	0.02058342	0.178151862
ENSG00000137171	KLC4 subnetwork	0.02056788	0.178228121
MP:0002740	heart hypoplasia	0.0205819	0.178243728
ENSG00000108924	HLF subnetwork	0.02063835	0.178505007
MP:0010903	abnormal pulmonary alveolus wall morphology	0.02061992	0.178561203
ENSG00000111424	VDR subnetwork	0.02083339	0.179914224
GO:0005671	Ada2/Gcn5/Ada3 transcription activator complex	0.0208848	0.180214286
GO:0043130	ubiquitin binding	0.02094999	0.180977873
MP:0010875	increased bone volume	0.0209699	0.180991441
ENSG00000111731	KIAA0528 subnetwork	0.02105558	0.181281139
ENSG00000111737	RAB35 subnetwork	0.02103639	0.181290093
ENSG00000179583	CIITA subnetwork	0.02112175	0.181321023
MP:0009766	increased sensitivity to xenobiotic induced morbidity/mortality	0.02105044	0.181410256
REACTOME_SEMA4D_IN_SEM	REACTOME_SEMA4D_IN_SEMAPHORIN_SIGNALING	0.02111883	0.181449893
GO:0001782	B cell homeostasis	0.02108571	0.181472262
ENSG00000108175	ZMIZ1 subnetwork	0.02114148	0.181511171
ENSG00000134717	BTF3L4 subnetwork	0.0211876	0.181666667
MP:0003204	decreased neuron apoptosis	0.02120472	0.18167966
GO:0045429	positive regulation of nitric oxide biosynthetic process	0.0212358	0.181798867
ENSG00000167548	MLL2 subnetwork	0.02128928	0.182094834
ENSG00000137709	POU2F3 subnetwork	0.02131216	0.182120141
ENSG00000169598	DFFB subnetwork	0.02129777	0.182142857
ENSG00000012223	LTF subnetwork	0.02135914	0.18220339
GO:0018024	histone-lysine N-methyltransferase activity	0.02142057	0.182498236
MP:0004399	abnormal cochlear outer hair cell morphology	0.02147226	0.18255814
REACTOME_TRANSCRIPTIONAL	REACTOME_TRANSCRIPTIONAL_REGULATION_OF_WHITE_	0.02146612	0.1825811
MP:0008174	decreased follicular B cell number	0.02153392	0.182793807
ENSG00000101076	HNF4A subnetwork	0.021513	0.182852113
ENSG00000151090	THRB subnetwork	0.02163806	0.183684951
MP:0005281	increased fatty acid level	0.02170656	0.183964912
ENSG00000175387	SMAD2 subnetwork	0.02170627	0.184094101
ENSG00000007174	DNAH9 subnetwork	0.02168601	0.18411806
ENSG00000171530	TBCA subnetwork	0.0217992	0.184653118
ENSG00000143768	LEFTY2 subnetwork	0.02179422	0.184712482
ENSG00000101901	ALG13 subnetwork	0.02183661	0.184768908

ENSG00000148377	IDI2 subnetwork	0.02192219	0.185514346
GO:0060330	regulation of response to interferon-gamma	0.02201978	0.185998603
MP:0002335	decreased airway responsiveness	0.0220597	0.186078158
GO:0060334	regulation of interferon-gamma-mediated signaling pathway	0.02201978	0.186128581
ENSG00000197757	HOXC6 subnetwork	0.02200739	0.186223776
GO:0070076	histone lysine demethylation	0.0221338	0.186715481
ENSG00000124788	ATXN1 subnetwork	0.0221556	0.186864111
ENSG00000111707	SUDS3 subnetwork	0.02228832	0.187848189
ENSG00000132170	PPARG subnetwork	0.02237049	0.188343772
MP:0003567	abnormal fetal cardiomyocyte proliferation	0.02241051	0.188630042
MP:0005165	increased susceptibility to injury	0.02244628	0.188637943
ENSG00000133895	MEN1 subnetwork	0.02252463	0.189305556
ENSG00000103671	TRIP4 subnetwork	0.02269854	0.18982699
GO:0032451	demethylase activity	0.02265306	0.18991684
MP:0008190	decreased transitional stage B cell number	0.02264911	0.189944521
GO:0001779	natural killer cell differentiation	0.02268983	0.189958449
ENSG00000171453	POLR1C subnetwork	0.02261754	0.19000694
GO:0006325	chromatin organization	0.02280066	0.19049101
GO:0032945	negative regulation of mononuclear cell proliferation	0.02293728	0.191332873
GO:0050672	negative regulation of lymphocyte proliferation	0.02293728	0.1914651
MP:0000245	abnormal erythropoiesis	0.02298596	0.191476881
MP:0000108	midline facial cleft	0.02301045	0.191689655
ENSG00000178573	MAF subnetwork	0.02326401	0.194004135
ENSG00000177169	ULK1 subnetwork	0.02329129	0.194008264
GO:0015026	coreceptor activity	0.02329935	0.194012388
ENSG00000139505	MTMR6 subnetwork	0.02336763	0.19443299
GO:0004198	calcium-dependent cysteine-type endopeptidase activity	0.02336154	0.194463549
ENSG00000196092	PAX5 subnetwork	0.02346648	0.195089286
GO:0045670	regulation of osteoclast differentiation	0.02352391	0.195813315
GO:0034061	DNA polymerase activity	0.02360805	0.196433471
REACTOME_ERKMAPK_TARGET	REACTOME_ERKMAPK_TARGETS	0.0236262	0.196504455
GO:0042508	tyrosine phosphorylation of Stat1 protein	0.02368562	0.196952055
REACTOME_INTERFERON_GAMMA	REACTOME_INTERFERON_GAMMA_SIGNALING	0.02370522	0.197091034
GO:0051091	positive regulation of sequence-specific DNA binding transcription factor activity	0.02376486	0.197435021
KEGG_ACUTE_MYELOID_LEUKEMIA	KEGG_ACUTE_MYELOID_LEUKEMIA	0.02385492	0.197643443
ENSG00000124486	USP9X subnetwork	0.0238499	0.197778537
MP:0000938	motor neuron degeneration	0.0241058	0.199351978
MP:0004771	increased anti-single stranded DNA antibody level	0.02413016	0.19935242
ENSG00000129250	KIF1C subnetwork	0.02410048	0.199488055
ENSG00000141068	KSR1 subnetwork	0.02417337	0.199557221
GO:0030183	B cell differentiation	0.02422668	0.200034037
ENSG00000033327	GAB2 subnetwork	0.02428868	0.200510204
GO:0051492	regulation of stress fiber assembly	0.02436825	0.201087695
ENSG00000119760	SUPT7L subnetwork	0.02439058	0.201256793
ENSG00000125952	MAX subnetwork	0.02453476	0.201966102
ENSG00000120690	ELF1 subnetwork	0.02453324	0.202069199
ENSG00000172977	KAT5 subnetwork	0.02451991	0.202138493
ENSG00000198176	TFDP1 subnetwork	0.02462513	0.202777778
GO:0002922	positive regulation of humoral immune response	0.02471844	0.203588355
ENSG00000118965	WDR35 subnetwork	0.02485827	0.204668471
ENSG000000007312	CD79B subnetwork	0.02492717	0.205037187
ENSG00000163519	TRAT1 subnetwork	0.02497506	0.205236486
MP:0008578	decreased circulating interferon-gamma level	0.02508569	0.205319865

ENSG00000139372	TDG subnetwork	0.02498555	0.205334234
GO:0042054	histone methyltransferase activity	0.02501289	0.205398111
GO:0035035	histone acetyltransferase binding	0.02506151	0.205424528
ENSG00000160447	PKN3 subnetwork	0.02505179	0.205495617
GO:0016458	gene silencing	0.02537669	0.207416107
GO:0030331	estrogen receptor binding	0.02534485	0.207459677
ENSG00000071794	HLTF subnetwork	0.02537602	0.207488247
ENSG00000107562	CXCL12 subnetwork	0.02534329	0.207599193
GO:0050869	negative regulation of B cell activation	0.02533602	0.207705249
ENSG00000163399	ATP1A1 subnetwork	0.02543239	0.207780013
GO:0032182	small conjugating protein binding	0.02549365	0.208176944
GO:0034339	regulation of transcription from RNA polymerase II promoter	0.02561347	0.209002677
ENSG00000110711	AIP subnetwork	0.02557952	0.209008707
ENSG00000143867	OSR1 subnetwork	0.02585561	0.21019385
GO:0072676	lymphocyte migration	0.02589528	0.210287241
ENSG00000141447	OSBPL1A subnetwork	0.02585561	0.210334448
ENSG00000188130	MAPK12 subnetwork	0.02593942	0.210413885
ENSG00000100320	RBFOX2 subnetwork	0.02598819	0.210473649
MP:0008070	absent T cells	0.02603973	0.211
ENSG00000197461	PDGFA subnetwork	0.02605735	0.211192538
ENSG00000158092	NCK1 subnetwork	0.02624286	0.211663353
ENSG00000166747	AP1G1 subnetwork	0.02612796	0.211668883
GO:0030674	protein binding, bridging	0.02622641	0.211671088
KEGG_TIGHT_JUNCTION	KEGG_TIGHT_JUNCTION	0.02614636	0.211694352
GO:0060444	branching involved in mammary gland duct morphogenesis	0.02611853	0.211709914
GO:0042379	chemokine receptor binding	0.02620826	0.211712011
MP:0004255	abnormal spongiotrophoblast layer morphology	0.02609897	0.21171771
MP:0005344	increased circulating bilirubin level	0.02619615	0.211819389
ENSG00000107560	RAB11FIP2 subnetwork	0.02630459	0.212152318
GO:0008060	ARF GTPase activator activity	0.02636783	0.212706817
ENSG00000206450	HLA-B subnetwork	0.02665549	0.214781746
ENSG00000197892	KIF13B subnetwork	0.02669298	0.21483807
MP:0006341	small first branchial arch	0.02676783	0.215214521
ENSG00000147507	ENSG00000147507 subnetwork	0.02675558	0.215224571
MP:0003132	increased pre-B cell number	0.02683413	0.215699208
GO:0051044	positive regulation of membrane protein ectodomain proteolysis	0.02685475	0.215721819
ENSG00000026508	CD44 subnetwork	0.02691898	0.216063199
ENSG00000099964	ENSG00000099964 subnetwork	0.02690049	0.216073781
ENSG00000107882	SUFU subnetwork	0.02702114	0.21648063
ENSG00000163486	SRGAP2 subnetwork	0.02700254	0.216491459
MP:0010179	rough coat	0.02699475	0.216568047
MP:0001654	hepatic necrosis	0.02699121	0.216644737
ENSG00000152689	RASGRP3 subnetwork	0.02710487	0.216918033
ENSG00000203283	ENSG00000203283 subnetwork	0.02713408	0.216994106
ENSG00000117877	CD3EAP subnetwork	0.02709289	0.217027559
ENSG00000135090	TAOK3 subnetwork	0.02717224	0.217113874
ENSG00000161570	CCL5 subnetwork	0.02713408	0.217136304
GO:0050707	regulation of cytokine secretion	0.02722489	0.217495095
ENSG00000130159	ECSIT subnetwork	0.0272764	0.217679739
GO:0032720	negative regulation of tumor necrosis factor production	0.02732698	0.218256042
ENSG00000183117	CSMD1 subnetwork	0.02739449	0.218448501
GO:0002717	positive regulation of natural killer cell mediated immunity	0.02738403	0.218460535
GO:0045954	positive regulation of natural killer cell mediated cytotoxicity	0.02738403	0.218603133

ENSG00000082701	GSK3B subnetwork	0.0275234	0.219543974
MP:0008714	lung carcinoma	0.02759182	0.219921875
GO:0006338	chromatin remodeling	0.02762786	0.219973975
ENSG00000165197	FIGF subnetwork	0.0277024	0.220416125
ENSG00000120156	TEK subnetwork	0.02779655	0.221312541
MP:0000609	abnormal liver physiology	0.02781994	0.221331169
MP:0005597	decreased susceptibility to type I hypersensitivity reaction	0.0278515	0.221414666
ENSG00000137601	NEK1 subnetwork	0.02789786	0.221562905
ENSG00000163166	IWS1 subnetwork	0.02811523	0.223525599
REACTOME_IMMUNOREGULA	REACTOME_IMMUNOREGULATORY_INTERACTIONS_BETW	0.02816996	0.223639896
GO:0090311	regulation of protein deacetylation	0.0281968	0.223721683
GO:0035601	protein deacylation	0.02822654	0.223771022
MP:0002904	increased circulating parathyroid hormone level	0.02828554	0.224111183
ENSG00000118513	MYB subnetwork	0.02833675	0.224273725
ENSG00000124208	TMEM189-UBE2V1 subnetwork	0.02833473	0.224418605
ENSG00000136518	ACTL6A subnetwork	0.02839066	0.224709677
ENSG00000116288	PARK7 subnetwork	0.02847546	0.225274017
GO:0016884	carbon-nitrogen ligase activity, with glutamine as amido-N-	0.02854771	0.226127577
GO:0002824	positive regulation of adaptive immune response based on	0.02856737	0.226142949
ENSG00000143207	RFWD2 subnetwork	0.02883415	0.228507079
GO:0006954	inflammatory response	0.02896638	0.229485531
ENSG00000179094	PER1 subnetwork	0.02905429	0.229762668
ENSG00000003402	CFLAR subnetwork	0.02898546	0.229787918
ENSG00000100056	DGCR14 subnetwork	0.02908693	0.229807692
MP:0005251	blepharitis	0.02905034	0.229878049
MP:0008209	decreased pre-B cell number	0.0291191	0.22991672
ENSG00000168918	INPP5D subnetwork	0.02903973	0.229993577
REACTOME_ERKS_ARE_INACTI	REACTOME_ERKS_ARE_INACTIVATED	0.0293711	0.231413948
MP:0005277	abnormal brainstem morphology	0.02934752	0.23153009
ENSG00000165030	NFIL3 subnetwork	0.02943159	0.231649616
ENSG00000132005	RFX1 subnetwork	0.02957246	0.232758621
REACTOME_SIGNALING_BY_EC	REACTOME_SIGNALING_BY_EGFR	0.02956549	0.232811502
MP:0008080	abnormal CD8-positive T cell differentiation	0.02961433	0.232929164
ENSG00000164889	SLC4A2 subnetwork	0.029643	0.233195153
MP:0009346	decreased trabecular bone thickness	0.02965895	0.233269598
ENSG00000205302	SNX2 subnetwork	0.02986838	0.234904459
ENSG00000112242	E2F3 subnetwork	0.02994576	0.235614258
ENSG00000161634	DCD subnetwork	0.03001791	0.235641677
REACTOME_SIGNALING_BY_EC	REACTOME_SIGNALING_BY_EGFR_IN_CANCER	0.03002557	0.235650794
ENSG00000131095	GFAP subnetwork	0.02999634	0.23571883
GO:0008276	protein methyltransferase activity	0.03000795	0.235727908
ENSG00000117713	ARID1A subnetwork	0.03008765	0.235945431
ENSG00000148400	NOTCH1 subnetwork	0.03009804	0.235954344
MP:0009230	abnormal sperm head morphology	0.03019817	0.236139241
ENSG00000206413	ENSG00000206413 subnetwork	0.03018953	0.236257125
ENSG00000206493	HLA-E subnetwork	0.03018953	0.236406844
REACTOME_GAB1_SIGNALOSC	REACTOME_GAB1_SIGNALOSOME	0.03026331	0.23655914
ENSG00000115904	SOS1 subnetwork	0.03034732	0.236946903
MP:0000493	rectal prolapse	0.03053528	0.238099747
MP:0001585	hemolytic anemia	0.03053441	0.238250158
ENSG000000065882	TBC1D1 subnetwork	0.03068466	0.239116719
ENSG000000071537	SEL1L subnetwork	0.03072545	0.239407314
MP:0000188	abnormal circulating glucose level	0.03081454	0.239521712

ENSG00000135801	TAF5L subnetwork	0.03077349	0.239634531
MP:0008705	increased interleukin-6 secretion	0.03079906	0.239641058
MP:0008641	increased circulating interleukin-1 beta level	0.03091177	0.240037712
KEGG_BASE_EXCISION_REPAIR	KEGG_BASE_EXCISION_REPAIR	0.03089286	0.24009434
MP:0005441	increased urine calcium level	0.0312187	0.241036852
ENSG00000166164	BRD7 subnetwork	0.03121074	0.241125
GO:0043149	stress fiber assembly	0.03118737	0.241181989
GO:0022408	negative regulation of cell-cell adhesion	0.03117885	0.24120776
MP:0003448	altered tumor morphology	0.03129834	0.241292135
ENSG00000116353	MECR subnetwork	0.03116894	0.24129618
MP:0009967	abnormal neuron proliferation	0.03116655	0.241384712
GO:0034142	toll-like receptor 4 signaling pathway	0.03111637	0.241462649
ENSG00000170962	PDGFD subnetwork	0.03115735	0.241473354
ENSG00000206156	ENSG00000206156 subnetwork	0.03111456	0.241614322
ENSG00000145431	PDGFC subnetwork	0.03115735	0.241624843
ENSG00000103197	TSC2 subnetwork	0.03148109	0.24238927
ENSG00000104689	TNFRSF10A subnetwork	0.03157729	0.243173317
REACTOME_APOPTOSIS	REACTOME_APOPTOSIS	0.03173889	0.244049844
ENSG00000065534	MYLK subnetwork	0.03184871	0.244679527
ENSG00000119866	BCL11A subnetwork	0.03184198	0.244769614
MP:0002928	abnormal bile duct morphology	0.03190439	0.244962687
GO:0003823	antigen binding	0.03214975	0.246737104
ENSG00000107223	EDF1 subnetwork	0.0322331	0.247173913
GO:0034138	toll-like receptor 3 signaling pathway	0.03227597	0.247177419
ENSG00000211899	ENSG00000211899 subnetwork	0.03228991	0.247210167
ENSG00000077150	NFKB2 subnetwork	0.03226035	0.247268777
ENSG00000123836	PFKFB2 subnetwork	0.03232984	0.247335812
MP:0002022	increased lymphoma incidence	0.0327317	0.250464396
GO:0002274	myeloid leukocyte activation	0.03283964	0.251082251
ENSG00000152942	RAD17 subnetwork	0.03280965	0.251082921
ENSG00000144852	NR1I2 subnetwork	0.03291913	0.251172116
ENSG00000154143	PANX3 subnetwork	0.03291413	0.251265432
ENSG00000122512	PMS2 subnetwork	0.03291335	0.251389747
ENSG00000187953	ENSG00000187953 subnetwork	0.03291335	0.251545117
ENSG00000117676	RPS6KA1 subnetwork	0.03303965	0.252127004
KEGG_NATURAL_KILLER_CELL	KEGG_NATURAL_KILLER_CELL_MEDIATED_CYTOTOXICITY	0.03309047	0.2525878
GO:0030032	lamellipodium assembly	0.03313209	0.252801724
GO:0071383	cellular response to steroid hormone stimulus	0.03322053	0.253323077
MP:0002032	sarcoma	0.0332658	0.253382534
ENSG00000151292	CSNK1G3 subnetwork	0.0333053	0.253534112
MP:0004809	increased hematopoietic stem cell number	0.0334596	0.25485258
ENSG00000106244	PDAP1 subnetwork	0.03348268	0.254910988
MP:0008388	hypochromic microcytic anemia	0.03350257	0.25493865
GO:0034708	methyltransferase complex	0.03364482	0.256035539
GO:0035097	histone methyltransferase complex	0.03364482	0.25619252
MP:0001426	polydipsia	0.03372209	0.256368647
KEGG_NON_HOMOLOGOUS_E	KEGG_NON_HOMOLOGOUS_END_JOINING	0.03384105	0.257435741
MP:0002406	increased susceptibility to infection	0.03392465	0.257828746
ENSG00000131899	LLGL1 subnetwork	0.03398262	0.258037897
GO:0050663	cytokine secretion	0.03401276	0.258094075
ENSG00000114062	UBE3A subnetwork	0.03405956	0.258180708
ENSG00000197822	OCLN subnetwork	0.03422609	0.25945122
ENSG00000163050	ADCK3 subnetwork	0.03421315	0.259517999

MP:0004982	abnormal osteoclast morphology	0.03431872	0.259932968
ENSG00000174485	DENND4A subnetwork	0.03443793	0.260688185
ENSG00000166135	HIF1AN subnetwork	0.03450878	0.261229458
MP:0002451	abnormal macrophage physiology	0.03462387	0.262043796
ENSG00000113360	DROSHA subnetwork	0.03469779	0.262522796
GO:0031072	heat shock protein binding	0.03494901	0.2643898
GO:0031231	intrinsic to peroxisomal membrane	0.03500078	0.264484848
ENSG00000110931	CAMKK2 subnetwork	0.0349438	0.264520049
GO:0046633	alpha-beta T cell proliferation	0.0349848	0.264532767
ENSG00000203879	GDI1 subnetwork	0.03501889	0.264566929
GO:0005779	integral to peroxisomal membrane	0.03500078	0.26464524
ENSG00000173011	TADA2B subnetwork	0.03513027	0.265284504
ENSG00000136485	DCAF7 subnetwork	0.03533911	0.266908651
ENSG00000157404	KIT subnetwork	0.0354973	0.26786578
ENSG00000198961	PJA2 subnetwork	0.03560807	0.26897281
ENSG00000043462	LCP2 subnetwork	0.03575434	0.269897343
ENSG00000183034	OTOP2 subnetwork	0.03599139	0.270367028
GO:0000979	RNA polymerase II core promoter sequence-specific DNA bi	0.03598905	0.270529801
MP:0002398	abnormal bone marrow cell morphology/development	0.03602438	0.270565244
MP:0000295	trabecula carnea hypoplasia	0.03598169	0.270662651
MP:0001655	multifocal hepatic necrosis	0.03594558	0.270675105
ENSG00000155506	LARP1 subnetwork	0.03593835	0.270778046
GO:0051043	regulation of membrane protein ectodomain proteolysis	0.0359338	0.270911285
ENSG00000138798	EGF subnetwork	0.03615946	0.271351351
GO:0031400	negative regulation of protein modification process	0.03615584	0.271484375
ENSG00000143772	ITPKB subnetwork	0.03622804	0.271728691
MP:0004130	abnormal muscle cell glucose uptake	0.03630861	0.272075585
ENSG00000117266	CDK18 subnetwork	0.03635247	0.272109047
ENSG00000036672	USP2 subnetwork	0.03634481	0.27221223
GO:0043368	positive T cell selection	0.03646576	0.2722189
MP:0004737	absent distortion product otoacoustic emissions	0.03641575	0.272365269
GO:0045088	regulation of innate immune response	0.03645361	0.272381807
ENSG00000163517	HDAC11 subnetwork	0.03669019	0.274267782
ENSG00000069956	MAPK6 subnetwork	0.03692104	0.274910714
ENSG00000007908	SELE subnetwork	0.03692	0.275074449
ENSG00000185386	MAPK11 subnetwork	0.0368229	0.275134328
MP:0003179	decreased platelet cell number	0.03702482	0.275163399
MP:0000495	abnormal colon morphology	0.03705325	0.275178147
KEGG_SMALL_CELL_LUNG_CAI	KEGG_SMALL_CELL_LUNG_CANCER	0.03691587	0.275178784
GO:0070411	I-SMAD binding	0.03701906	0.275208086
REACTOME_EARLY_PHASE_OF	REACTOME_EARLY_PHASE_OF_HIV_LIFE_CYCLE	0.03687713	0.275298329
ENSG00000125398	SOX9 subnetwork	0.03682179	0.275298686
ENSG00000057657	PRDM1 subnetwork	0.03690807	0.275313059
ENSG00000102878	HSF4 subnetwork	0.03700687	0.275342058
ENSG00000092529	CAPN3 subnetwork	0.03714471	0.275622776
GO:0030159	receptor signaling complex scaffold activity	0.03712465	0.275727003
MP:0005439	decreased glycogen level	0.03727288	0.276585655
ENSG00000184863	RBM33 subnetwork	0.03734003	0.277191943
ENSG00000198265	HELZ subnetwork	0.03743875	0.277797513
MP:0000266	abnormal heart morphology	0.03758451	0.278503844
MP:0001413	abnormal response to new environment	0.0375636	0.27852071
ENSG00000108256	NUFIP2 subnetwork	0.03765487	0.278812057
ENSG00000072310	SREBF1 subnetwork	0.03770409	0.279001772

ENSG00000076242	MLH1 subnetwork	0.03776751	0.279456907
ENSG00000100784	RPS6KA5 subnetwork	0.03792443	0.280707965
GO:0000785	chromatin	0.03798873	0.281338443
GO:0043414	macromolecule methylation	0.03815431	0.282763701
GO:0000792	heterochromatin	0.03829341	0.283009994
GO:0046209	nitric oxide metabolic process	0.03828944	0.283117647
GO:0008168	methyltransferase activity	0.03824395	0.283156655
GO:0060561	apoptotic process involved in morphogenesis	0.03826653	0.283166569
REACTOME_TOLL_RECEPTOR_	REACTOME_TOLL_RECEPTOR_CASCADES	0.03837694	0.283578143
GO:0006482	protein demethylation	0.03850619	0.284184272
GO:0008214	protein dealkylation	0.03850619	0.284351145
MP:0010144	abnormal tumor vascularization	0.03873024	0.28542522
GO:0005159	insulin-like growth factor receptor binding	0.03876327	0.28549238
ENSG00000162692	VCAM1 subnetwork	0.03882602	0.285509368
GO:0008285	negative regulation of cell proliferation	0.03888651	0.285584795
ENSG00000087266	SH3BP2 subnetwork	0.03881394	0.285588752
ENSG00000139515	PDX1 subnetwork	0.03887765	0.285693388
GO:0016585	chromatin remodeling complex	0.0390379	0.286265342
REACTOME_COOPERATION_OI	REACTOME_COOPERATION_OF_PREFOLDIN_AND_TRICCT	0.03914261	0.286697783
ENSG00000166592	RRAD subnetwork	0.03910559	0.286740654
REACTOME_PREFOLDIN_MEDI	REACTOME_PREFOLDIN_MEDIATED_TRANSFER_OF_SUBST	0.03914261	0.286865149
ENSG00000166710	B2M subnetwork	0.03942939	0.288862974
ENSG00000156675	RAB11FIP1 subnetwork	0.03953043	0.289481352
ENSG00000135046	ANXA1 subnetwork	0.03961682	0.289836925
REACTOME_ZINC_INFLUX_INT	REACTOME_ZINC_INFLUX_INTO_CELLS_BY_THE_SLC39_GE	0.03964367	0.289871944
KEGG_PEROXISOME	KEGG_PEROXISOME	0.04007954	0.290051903
MP:0001859	kidney inflammation	0.0401049	0.290057637
ENSG00000163554	SPTA1 subnetwork	0.04006104	0.290075014
MP:0002416	abnormal proerythroblast morphology	0.03976626	0.290197789
GO:0002707	negative regulation of lymphocyte mediated immunity	0.04005543	0.290213626
ENSG00000163932	PRKCD subnetwork	0.0398623	0.290226218
ENSG00000065675	PRKCQ subnetwork	0.03978931	0.290261628
GO:0016577	histone demethylation	0.04016292	0.290270581
ENSG00000143753	DEGS1 subnetwork	0.03985155	0.290336622
GO:0006916	anti-apoptosis	0.04014948	0.290380184
GO:0002704	negative regulation of leukocyte mediated immunity	0.04005543	0.290381282
REACTOME_INNATE_IMMUNE	REACTOME_INNATE_IMMUNE_SYSTEM	0.03989745	0.290405797
ENSG00000008294	SPAG9 subnetwork	0.0398502	0.290505226
GO:0016278	lysine N-methyltransferase activity	0.04002379	0.290514748
GO:0031293	membrane protein intracellular domain proteolysis	0.04005128	0.290520231
GO:0031063	regulation of histone deacetylation	0.03983825	0.290557815
MP:0002447	abnormal erythrocyte morphology	0.04022317	0.290678941
GO:0016279	protein-lysine N-methyltransferase activity	0.04002379	0.29068287
ENSG00000064393	HIPK2 subnetwork	0.04025196	0.290684301
GO:0050729	positive regulation of inflammatory response	0.04000662	0.290793283
MP:0002397	abnormal bone marrow morphology	0.03997354	0.290816918
GO:0008063	Toll signaling pathway	0.04029042	0.290833333
MP:0005031	abnormal trophoblast layer morphology	0.04064801	0.293566916
ENSG00000099389	ENSG00000099389 subnetwork	0.040777	0.294144661
MP:0003799	impaired macrophage chemotaxis	0.04083114	0.294434882
ENSG00000086598	TMED2 subnetwork	0.04093559	0.29504298
ENSG00000109971	HSPA8 subnetwork	0.04097212	0.295074456
GO:0002832	negative regulation of response to biotic stimulus	0.04100503	0.295077275

GO:0005925	focal adhesion	0.04091525	0.295097477
GO:0032947	protein complex scaffold	0.04102068	0.295251716
MP:0004842	abnormal large intestine crypts of Lieberkuhn morphology	0.04115	0.296112064
GO:0001046	core promoter sequence-specific DNA binding	0.04121511	0.296371429
GO:0042578	phosphoric ester hydrolase activity	0.0412878	0.296858938
GO:0042992	negative regulation of transcription factor import into nucleolus	0.0413617	0.297374429
ENSG00000114026	OGG1 subnetwork	0.04151228	0.298060468
ENSG00000140464	PML subnetwork	0.04157972	0.298346636
ENSG00000085511	MAP3K4 subnetwork	0.04166069	0.298661731
ENSG00000141837	CACNA1A subnetwork	0.04163571	0.298746439
ENSG00000138376	BARD1 subnetwork	0.04170203	0.299032442
ENSG00000110651	CD81 subnetwork	0.04191459	0.300682594
ENSG00000145425	RPS3A subnetwork	0.04197854	0.300938033
MP:0004189	abnormal alveolar process morphology	0.04206987	0.301505682
ENSG00000157933	SKI subnetwork	0.04211576	0.30153322
ENSG00000103423	DNAJA3 subnetwork	0.04226051	0.302270148
ENSG00000072135	PTPN18 subnetwork	0.04246004	0.303828701
ENSG00000123131	PRDX4 subnetwork	0.04248636	0.303939909
MP:0004893	decreased adiponectin level	0.04254048	0.304133635
REACTOME_NGF_SIGNALLING_VIA_TRKA_FROM_THE_PLASMA_MEMBRANE	REACTOME_NGF_SIGNALLING_VIA_TRKA_FROM_THE_PLASMA_MEMBRANE	0.04252257	0.304135977
ENSG00000188459	ENSG00000188459 subnetwork	0.04259748	0.304385965
ENSG00000135100	HNF1A subnetwork	0.04265667	0.304435028
REACTOME_PIP3_ACTIVATES_AKT_SIGNALING	REACTOME_PIP3_ACTIVATES_AKT_SIGNALING	0.04265396	0.304578858
ENSG00000211456	SACM1L subnetwork	0.0426334	0.30469457
ENSG00000100644	HIF1A subnetwork	0.04299274	0.30728402
ENSG00000162407	PPAP2B subnetwork	0.04308383	0.307529611
MP:0000602	enlarged liver sinusoidal spaces	0.04305115	0.30753386
ENSG00000115935	WIPF1 subnetwork	0.04316699	0.308032694
ENSG00000179335	CLK3 subnetwork	0.04325954	0.308366197
ENSG00000060138	CSDA subnetwork	0.04332552	0.308811937
GO:0044454	nuclear chromosome part	0.04335586	0.30889139
ENSG00000176165	FOXG1 subnetwork	0.0433837	0.308998875
MP:0008892	abnormal sperm flagellum morphology	0.04352068	0.309893198
KEGG_NOTCH_SIGNALING_PATHWAY	KEGG_NOTCH_SIGNALING_PATHWAY	0.04355863	0.310365169
MP:0001377	abnormal mating frequency	0.0436505	0.310752386
ENSG00000157764	BRAF subnetwork	0.04371177	0.310790359
ENSG00000198087	CD2AP subnetwork	0.04367753	0.310802469
ENSG00000107807	TLX1 subnetwork	0.04370949	0.310964666
ENSG00000142867	BCL10 subnetwork	0.04389041	0.311758119
ENSG00000119812	FAM98A subnetwork	0.04385719	0.311764706
ENSG00000171195	MUC7 subnetwork	0.04394674	0.311975378
ENSG00000156709	AIFM1 subnetwork	0.04405461	0.312583893
ENSG00000076928	ARHGEF1 subnetwork	0.04415144	0.313024036
ENSG00000182195	LDOC1 subnetwork	0.04462389	0.316424581
ENSG00000119138	KLF9 subnetwork	0.04467044	0.316666667
MP:0002023	B cell derived lymphoma	0.04469907	0.316741071
GO:0071495	cellular response to endogenous stimulus	0.04482857	0.317791411
ENSG00000112290	WASF1 subnetwork	0.04488104	0.31803233
ENSG00000007866	TEAD3 subnetwork	0.04490008	0.318189415
GO:0048011	nerve growth factor receptor signaling pathway	0.04501687	0.318538077
GO:0060055	angiogenesis involved in wound healing	0.04497571	0.318558709
ENSG00000130956	HABP4 subnetwork	0.04500717	0.318604004
GO:0005083	small GTPase regulator activity	0.04496319	0.318624722

ENSG00000165637	VDAC2 subnetwork	0.04504597	0.318638889
MP:0002828	abnormal renal glomerular capsule morphology	0.04525901	0.320460855
ENSG00000163811	WDR43 subnetwork	0.04536424	0.3208264
GO:0045342	MHC class II biosynthetic process	0.04534224	0.320865705
ENSG00000117222	RBBP5 subnetwork	0.04543049	0.321092018
MP:0004985	decreased osteoclast cell number	0.04546253	0.321191136
ENSG00000065526	SPEN subnetwork	0.04552819	0.321456257
ENSG00000181555	SETD2 subnetwork	0.04557023	0.321460177
GO:0008175	tRNA methyltransferase activity	0.04555698	0.321610404
ENSG00000198793	MTOR subnetwork	0.04563285	0.321835268
ENSG00000136731	UGGT1 subnetwork	0.04574428	0.32184225
ENSG00000101306	MYLK2 subnetwork	0.04568106	0.321933702
ENSG00000010810	FYN subnetwork	0.04573751	0.32196468
ENSG00000162772	ATF3 subnetwork	0.04580925	0.322050717
ENSG00000140395	WDR61 subnetwork	0.0457241	0.322059636
GO:0003705	RNA polymerase II distal enhancer sequence-specific DNA b	0.04585959	0.322203857
ENSG00000213658	LAT subnetwork	0.0459294	0.322742291
ENSG00000164924	YWHAZ subnetwork	0.04612923	0.323708791
MP:0004950	abnormal brain vasculature morphology	0.04611968	0.323831776
GO:0002544	chronic inflammatory response	0.04609248	0.323885526
ENSG00000174405	LIG4 subnetwork	0.04611088	0.323982398
MP:0009790	decreased susceptibility to viral infection induced morbidity	0.04643016	0.325782537
ENSG00000173327	MAP3K11 subnetwork	0.04644813	0.325795829
ENSG00000162735	PEX19 subnetwork	0.04649465	0.326055952
MP:0005287	narrow eye opening	0.04654713	0.326233553
ENSG00000184922	FMNL1 subnetwork	0.04663169	0.326684932
ENSG00000097007	ABL1 subnetwork	0.04667574	0.326752464
ENSG00000167258	CDK12 subnetwork	0.04688579	0.327156114
ENSG00000179262	RAD23A subnetwork	0.04679956	0.327173319
GO:0050727	regulation of inflammatory response	0.04682618	0.327213115
MP:0000603	pale liver	0.046921	0.327250409
MP:0005185	decreased circulating progesterone level	0.04686945	0.327280175
ENSG00000120738	EGR1 subnetwork	0.04679309	0.327324945
GO:0043543	protein acylation	0.04678675	0.327422003
ENSG00000138029	HADHB subnetwork	0.04705998	0.328189749
ENSG00000182578	CSF1R subnetwork	0.04718074	0.328910082
ENSG00000116473	RAP1A subnetwork	0.04727604	0.32954793
MP:0001272	increased metastatic potential	0.04734504	0.329749592
MP:0009788	increased susceptibility to bacterial infection induced morb	0.04763055	0.330510315
GO:0016741	transferase activity, transferring one-carbon groups	0.04757862	0.330570652
MP:0006301	abnormal mesenchyme morphology	0.04750278	0.330576714
GO:0042287	MHC protein binding	0.04761549	0.330608365
ENSG00000141551	CSNK1D subnetwork	0.04757759	0.330750408
ENSG00000103769	RAB11A subnetwork	0.0477214	0.331063483
ENSG00000206452	HLA-C subnetwork	0.0477761	0.331344902
ENSG00000126777	KTN1 subnetwork	0.04782978	0.331517615
ENSG00000184451	CCR10 subnetwork	0.04787386	0.331554713
ENSG00000140992	PDPK1 subnetwork	0.04805281	0.332972388
ENSG00000042980	ADAM28 subnetwork	0.04821538	0.334036797
ENSG00000099917	MED15 subnetwork	0.04833054	0.334883721
GO:0002455	humoral immune response mediated by circulating immun	0.04870333	0.337405405
MP:0003383	abnormal gluconeogenesis	0.04874268	0.337493247
ENSG00000182718	ANXA2 subnetwork	0.04882926	0.338282937

ENSG00000120509	PDZD11 subnetwork	0.04901176	0.339314625
ENSG00000129521	EGLN3 subnetwork	0.04903587	0.339347357
GO:0003993	acid phosphatase activity	0.04921932	0.340781671
ENSG00000100697	DICER1 subnetwork	0.04936137	0.341864224
GO:0004702	receptor signaling protein serine/threonine kinase activity	0.0495333	0.34273021
ENSG00000159840	ZYX subnetwork	0.04956794	0.342734123
GO:0006359	regulation of transcription from RNA polymerase III promot	0.04966455	0.342772703
ENSG00000169016	E2F6 subnetwork	0.04964803	0.342795699
ENSG00000154001	PPP2R5E subnetwork	0.04964088	0.342953201
REACTOME_P75_NTR_RECEPT	REACTOME_P75_NTR_RECEPTOR:MEDIATED_SIGNALLING	0.04990462	0.344334049
ENSG00000143878	RHOB subnetwork	0.05002259	0.344635193
ENSG00000157873	TNFRSF14 subnetwork	0.05001635	0.344766506
ENSG00000131504	DIAPH1 subnetwork	0.05010198	0.345040214
ENSG00000166197	NOLC1 subnetwork	0.05034272	0.346757771
ENSG00000006075	CCL3 subnetwork	0.0504711	0.347348688
ENSG00000106052	TAX1BP1 subnetwork	0.05062127	0.348367238
ENSG00000172116	CD8B subnetwork	0.05067851	0.348555377
ENSG00000215320	ENSG00000215320 subnetwork	0.0507111	0.348609626
ENSG00000183072	NKX2-5 subnetwork	0.05081437	0.348665955
ENSG00000177728	KIAA0195 subnetwork	0.05078135	0.348718633
ENSG00000183305	MAGEA2B subnetwork	0.050759	0.348798077
ENSG00000129473	BCL2L2 subnetwork	0.05074888	0.348824158
ENSG00000130699	TAF4 subnetwork	0.05088327	0.348986667
ENSG00000070882	OSBPL3 subnetwork	0.05107264	0.349813433
ENSG00000133026	MYH10 subnetwork	0.05111998	0.350026638
ENSG00000103266	STUB1 subnetwork	0.05129878	0.350478469
GO:0032620	interleukin-17 production	0.05129036	0.350558511
GO:0005667	transcription factor complex	0.05124048	0.35071885
GO:0032660	regulation of interleukin-17 production	0.05129036	0.350745077
MP:0003724	increased susceptibility to induced arthritis	0.05152283	0.350821845
ENSG00000108651	UTP6 subnetwork	0.05139106	0.350850159
REACTOME_SEMA4D_INDUCED	REACTOME_SEMA4D_INDUCED_CELL_MIGRATION_AND_G	0.05142807	0.350876261
ENSG00000111653	ING4 subnetwork	0.05146312	0.350902335
ENSG00000118503	TNFAIP3 subnetwork	0.0515147	0.350954907
REACTOME_NRIF_SIGNALS_CE	REACTOME_NRIF_SIGNALS_CELL_DEATH_FROM_THE_NUC	0.05157423	0.351059883
MP:0008111	abnormal granulocyte differentiation	0.05164762	0.351721398
MP:0003645	increased pancreatic beta cell number	0.05181809	0.352620434
ENSG00000166313	APBB1 subnetwork	0.05192423	0.353412698
ENSG00000095002	MSH2 subnetwork	0.05196225	0.353463776
GO:0022407	regulation of cell-cell adhesion	0.05200067	0.353541226
ENSG00000168092	PAFAH1B2 subnetwork	0.05208942	0.353882726
ENSG00000105216	ENSG00000105216 subnetwork	0.05213939	0.354012672
GO:0045089	positive regulation of innate immune response	0.05224081	0.354081095
GO:0031331	positive regulation of cellular catabolic process	0.05217458	0.35414248
ENSG00000072518	MARK2 subnetwork	0.05220298	0.354190828
MP:0009006	prolonged estrous cycle	0.05224046	0.354214963
GO:0042162	telomeric DNA binding	0.05229232	0.354263158
MP:0001759	increased urine glucose level	0.05219541	0.354324895
ENSG00000002330	BAD subnetwork	0.05240432	0.354918464
GO:0031330	negative regulation of cellular catabolic process	0.05244882	0.35502103
GO:0008625	induction of apoptosis via death domain receptors	0.05249057	0.355070941
ENSG00000165178	ENSG00000165178 subnetwork	0.05284863	0.357484244
MP:0000826	abnormal third ventricle morphology	0.05297066	0.358136483

REACTOME_PI3KAKT_ACTIVAT	REACTOME_PI3KAKT_ACTIVATION	0.05301843	0.358315845
MP:0001219	thick epidermis	0.05317651	0.359071841
GO:0010623	developmental programmed cell death	0.05329027	0.359958071
ENSG00000075785	RAB7A subnetwork	0.05337805	0.360371922
MP:0004952	increased spleen weight	0.05346573	0.360942408
MP:0000066	osteoporosis	0.05356822	0.361564626
ENSG00000185634	SHC4 subnetwork	0.05364617	0.362029289
ENSG00000073614	KDM5A subnetwork	0.05382511	0.363120753
GO:0032270	positive regulation of cellular protein metabolic process	0.05388543	0.363133159
GO:0000217	DNA secondary structure binding	0.05386181	0.363140021
MP:0000465	gastrointestinal hemorrhage	0.05418069	0.363846955
GO:0051353	positive regulation of oxidoreductase activity	0.05399978	0.363935282
ENSG00000104892	KLC3 subnetwork	0.05416667	0.363958333
GO:2000516	positive regulation of CD4-positive, alpha-beta T cell activat	0.05409413	0.364025026
ENSG00000156711	MAPK13 subnetwork	0.05414349	0.364043773
GO:0043372	positive regulation of CD4-positive, alpha-beta T cell differe	0.05409413	0.364214919
REACTOME_DEADENYLATION_	REACTOME_DEADENYLATION_OF_MRNA	0.05434692	0.365140479
GO:0071564	npBAF complex	0.05448723	0.365618503
GO:0032715	negative regulation of interleukin-6 production	0.05447364	0.365730629
MP:0002136	abnormal kidney physiology	0.0545336	0.365818182
ENSG00000141367	CLTC subnetwork	0.05464667	0.366225337
MP:0002757	decreased vertical activity	0.05467379	0.366320706
ENSG00000090487	SPG21 subnetwork	0.05490988	0.367512953
GO:0051235	maintenance of location	0.05489849	0.367599793
MP:0005582	increased renin activity	0.05488497	0.367660788
GO:0051403	stress-activated MAPK cascade	0.05504402	0.368038302
GO:0005924	cell-substrate adherens junction	0.05504075	0.368228897
ENSG00000196262	PPIA subnetwork	0.05532645	0.369534884
ENSG00000198618	ENSG00000198618 subnetwork	0.05532645	0.369725957
ENSG00000180182	MED14 subnetwork	0.05532282	0.369917227
ENSG00000104312	RIPK2 subnetwork	0.0554007	0.369963843
ENSG00000135074	ADAM19 subnetwork	0.05553481	0.370676304
ENSG00000109046	WSB1 subnetwork	0.05561078	0.371181631
ENSG00000008735	MAPK8IP2 subnetwork	0.05568667	0.371325425
ENSG00000163530	DPPA2 subnetwork	0.05593409	0.372668727
GO:0042088	T-helper 1 type immune response	0.05590046	0.372706186
ENSG00000105963	ADAP1 subnetwork	0.05606079	0.373377961
ENSG00000100302	RASD2 subnetwork	0.05612375	0.373468863
GO:0070603	SWI/SNF-type complex	0.05614793	0.37348251
REACTOME_PI3K_EVENTS_IN_	REACTOME_PI3K_EVENTS_IN_ERBB2_SIGNALING	0.05643943	0.375321337
ENSG00000170776	AKAP13 subnetwork	0.05648979	0.37561665
MP:0008713	abnormal cytokine level	0.0567799	0.376950719
ENSG00000212645	ENSG00000212645 subnetwork	0.0567644	0.377067283
GO:0042393	histone binding	0.0569204	0.377088672
ENSG00000134852	CLOCK subnetwork	0.0568913	0.377230769
REACTOME_PI3K_EVENTS_IN_	REACTOME_PI3K_EVENTS_IN_ERBB4_SIGNALING	0.05688885	0.37742432
GO:0003887	DNA-directed DNA polymerase activity	0.0570123	0.377843238
ENSG00000150459	SAP18 subnetwork	0.05707812	0.378070624
ENSG00000123094	RASSF8 subnetwork	0.05707386	0.378238607
ENSG00000150753	CCT5 subnetwork	0.0571791	0.378374233
MP:0002644	decreased circulating triglyceride level	0.05716041	0.378439898
GO:0031258	lamellipodium membrane	0.05721091	0.37851303
ENSG00000123268	ATF1 subnetwork	0.05739237	0.379468846

GO:0001891	phagocytic cup	0.05765266	0.379898219
ENSG00000129691	ASH2L subnetwork	0.05750819	0.379989791
GO:0000123	histone acetyltransferase complex	0.05758828	0.379994903
ENSG00000109819	PPARGC1A subnetwork	0.0576234	0.380056037
ENSG00000086015	MAST2 subnetwork	0.05757879	0.380061193
ENSG00000075945	KIFAP3 subnetwork	0.05764442	0.380066191
ENSG00000139318	DUSP6 subnetwork	0.0575465	0.380102041
ENSG00000139197	PEX5 subnetwork	0.05774538	0.380315361
MP:0002396	abnormal hematopoietic system morphology/development	0.05807566	0.381180344
ENSG00000100490	CDKL1 subnetwork	0.05805154	0.381196148
ENSG00000113643	RARS subnetwork	0.0579724	0.381227803
ENSG00000082805	ERC1 subnetwork	0.05803019	0.381288032
GO:0001666	response to hypoxia	0.05791679	0.381300813
MP:0004047	abnormal milk composition	0.05793452	0.381335703
GO:0006605	protein targeting	0.05790093	0.381367565
ENSG00000113356	POLR3G subnetwork	0.05796184	0.381395939
ENSG00000126767	ELK1 subnetwork	0.05824304	0.382126582
ENSG00000124181	PLCG1 subnetwork	0.05838764	0.382692308
GO:0005777	peroxisome	0.05854009	0.383291203
GO:0042579	microbody	0.05854009	0.383485078
MP:0001764	abnormal homeostasis	0.05883487	0.38489899
ENSG00000144891	AGTR1 subnetwork	0.05895895	0.385030242
ENSG00000101849	TBL1X subnetwork	0.05894282	0.385047907
MP:0002993	arthritis	0.05889891	0.385058051
ENSG00000092094	OSGEP subnetwork	0.05882892	0.385068216
ENSG00000186716	BCR subnetwork	0.05893492	0.385166498
ENSG00000155366	RHOC subnetwork	0.05929066	0.385398896
ENSG00000129219	PLD2 subnetwork	0.05910308	0.38545546
MP:0008750	abnormal interferon level	0.059288	0.385592369
MP:0001819	abnormal immune cell physiology	0.05909408	0.385624371
ENSG00000034693	PEX3 subnetwork	0.0590604	0.385642317
ENSG00000159348	CYB5R1 subnetwork	0.05924631	0.385653266
GO:0002756	MyD88-independent toll-like receptor signaling pathway	0.05926705	0.385660472
ENSG00000055208	TAB2 subnetwork	0.05922296	0.385771745
MP:0002675	asthenozoospermia	0.05920414	0.385865191
ENSG00000180900	SCRIB subnetwork	0.05940536	0.385907723
MP:0004187	cardia bifida	0.0595054	0.386441103
GO:0044419	interspecies interaction between organisms	0.0596402	0.387224449
ENSG00000152137	HSPB8 subnetwork	0.05971908	0.387531297
KEGG_PANCREATIC_CANCER	KEGG_PANCREATIC_CANCER	0.05991408	0.38811906
ENSG00000087088	BAX subnetwork	0.0599069	0.388288288
GO:0070988	demethylation	0.05997583	0.388475
GO:0045581	negative regulation of T cell differentiation	0.060104	0.389230385
ENSG00000160007	ARHGAP35 subnetwork	0.06017638	0.389266101
GO:0003697	single-stranded DNA binding	0.060151	0.389310689
MP:0003795	abnormal bone structure	0.06049138	0.389324727
ENSG00000073050	XRCC1 subnetwork	0.06047654	0.389468455
ENSG00000138722	MMRN1 subnetwork	0.06023243	0.389496008
ENSG00000145781	COMMD10 subnetwork	0.06043836	0.389607161
GO:0042800	histone methyltransferase activity (H3-K4 specific)	0.06046105	0.389612326
ENSG00000188313	PLSCR1 subnetwork	0.06042008	0.389701493
ENSG00000126070	EIF2C3 subnetwork	0.06031183	0.389750623
ENSG00000019991	HGF subnetwork	0.06035765	0.38978575

ENSG00000113387	SUB1 subnetwork	0.06041958	0.38989547
MP:0008126	increased dendritic cell number	0.06035111	0.389955135
REACTOME_O:LINKED_GLYCOSYLATION_OF_MUCINS		0.0604127	0.39001494
GO:0070851	growth factor receptor binding	0.06073985	0.390769231
ENSG00000147689	FAM83A subnetwork	0.06087007	0.391253717
ENSG00000132326	PER2 subnetwork	0.06083754	0.391294643
GO:0010741	negative regulation of intracellular protein kinase cascade	0.06085657	0.391373327
MP:0005559	increased circulating glucose level	0.06101011	0.392223873
ENSG00000124092	CTCFL subnetwork	0.06107861	0.39235527
ENSG00000180185	FAHD1 subnetwork	0.06107075	0.392475248
ENSG00000122870	BICC1 subnetwork	0.06145966	0.394609298
ENSG00000158195	WASF2 subnetwork	0.06154845	0.394762846
ENSG00000123091	RNF11 subnetwork	0.06153555	0.39485912
REACTOME_NEF_MEDIATED_DOWNREGULATION_OF_MHC		0.06165777	0.395160494
GO:0006304	DNA modification	0.06170336	0.39523692
ENSG000000064547	LPAR2 subnetwork	0.0617997	0.39573261
GO:0042613	MHC class II protein complex	0.06188499	0.396057171
ENSG00000125630	POLR1B subnetwork	0.06187812	0.396203156
GO:0009986	cell surface	0.06207782	0.396679784
ENSG00000115053	NCL subnetwork	0.06205441	0.396776575
GO:0070461	SAGA-type complex	0.06213532	0.396902655
ENSG00000106299	WASL subnetwork	0.06205388	0.396971935
ENSG00000090659	CD209 subnetwork	0.06205274	0.397167488
GO:0045185	maintenance of protein location	0.06222905	0.397469287
ENSG00000131051	RBM39 subnetwork	0.06242621	0.398501965
GO:0031519	PcG protein complex	0.06246223	0.398576338
GO:0006301	postreplication repair	0.06252921	0.398969578
ENSG00000025800	KPNA6 subnetwork	0.06272673	0.39907045
ENSG00000136383	ALPK3 subnetwork	0.06256678	0.39919078
ENSG00000144674	GOLGA4 subnetwork	0.062709	0.399216838
MP:0002161	abnormal fertility/fecundity	0.06276616	0.399217604
ENSG00000128594	LRRC4 subnetwork	0.06269606	0.399338883
GO:0002820	negative regulation of adaptive immune response	0.06265214	0.399363057
ENSG00000006712	PAF1 subnetwork	0.06262951	0.399411765
MP:0004201	fetal growth retardation	0.06296527	0.400244379
ENSG00000108510	MED13 subnetwork	0.06301529	0.400464094
REACTOME_CELL_DEATH_SIGNALLING_VIA_NFAT		0.06320956	0.400901999
GO:0033276	transcription factor TFCF complex	0.06314648	0.400976086
ENSG00000122691	TWIST1 subnetwork	0.06311139	0.400976563
GO:0006402	mRNA catabolic process	0.06318969	0.401
ENSG00000178607	ERN1 subnetwork	0.06325738	0.401023392
ENSG00000162521	RBBP4 subnetwork	0.06337629	0.401557936
ENSG00000136754	ABI1 subnetwork	0.0633631	0.401704822
ENSG00000054796	SPO11 subnetwork	0.0634394	0.401776156
REACTOME_DEFENSINS		0.06365694	0.402795333
ENSG00000129675	ARHGEF6 subnetwork	0.06364611	0.402918288
ENSG00000169710	FASN subnetwork	0.0637182	0.403182702
GO:0006959	humoral immune response	0.0638399	0.403691112
MP:0002652	thin myocardium	0.06390333	0.403808831
ENSG00000071051	NCK2 subnetwork	0.06389891	0.403956311
ENSG00000131374	TBC1D5 subnetwork	0.06406945	0.404631426
ENSG00000119630	PGF subnetwork	0.0641207	0.404823073
GO:0048732	gland development	0.06413898	0.404893411

GO:0035162	embryonic hemopoiesis	0.06421657	0.40527845
GO:0006342	chromatin silencing	0.06430856	0.40571152
ENSG00000149480	MTA2 subnetwork	0.06441907	0.406265119
GO:0060333	interferon-gamma-mediated signaling pathway	0.0646302	0.40705314
MP:0008597	decreased circulating interleukin-6 level	0.06466465	0.407073877
GO:0043621	protein self-association	0.0646159	0.407080715
MP:0001120	abnormal uterus morphology	0.0647305	0.407239382
GO:0032507	maintenance of protein location in cell	0.06460659	0.407253385
GO:0032259	methylation	0.06484609	0.407863
GO:0019209	kinase activator activity	0.06511972	0.408786712
MP:0001926	female infertility	0.06511385	0.408887283
ENSG00000178913	TAF7 subnetwork	0.0650187	0.408895853
ENSG00000166165	CKB subnetwork	0.06507628	0.408939759
KEGG_PROANOATE_METABO	KEGG_PROANOATE_METABOLISM	0.06519991	0.409143407
GO:0008173	RNA methyltransferase activity	0.06529633	0.409475709
ENSG00000142675	CNKSR1 subnetwork	0.06539762	0.409879808
GO:0005048	signal sequence binding	0.06558048	0.411124459
KEGG_NOD_LIKE_RECEPTOR_S	KEGG_NOD_LIKE_RECEPTOR_SIGNALING_PATHWAY	0.0656116	0.411167147
GO:0043967	histone H4 acetylation	0.06566796	0.411281805
ENSG00000148356	LRSAM1 subnetwork	0.06573828	0.411414868
ENSG00000137673	MMP7 subnetwork	0.06571644	0.411516315
ENSG00000155508	CNOT8 subnetwork	0.06579159	0.411571634
ENSG00000009413	REV3L subnetwork	0.06577423	0.411577181
ENSG00000133703	KRAS subnetwork	0.06583658	0.411590038
MP:0000067	osteopetrosis	0.06597901	0.412422212
ENSG00000166402	TUB subnetwork	0.06605776	0.412625538
ENSG00000180530	NRIP1 subnetwork	0.06604651	0.412799043
ENSG00000105723	GSK3A subnetwork	0.06622742	0.413401816
GO:0016514	SWI/SNF complex	0.06622634	0.413575526
GO:0050699	WW domain binding	0.06644636	0.414589303
GO:0016605	PML body	0.06655653	0.415107399
ENSG00000175866	BAIAP2 subnetwork	0.066614	0.415267176
KEGG_SYSTEMIC_LUPUS_ERYT	KEGG_SYSTEMIC_LUPUS_ERYTHEMATOSUS	0.06692619	0.41647619
ENSG00000205250	E2F4 subnetwork	0.06691513	0.416626965
ENSG00000141646	SMAD4 subnetwork	0.0668796	0.41663489
ENSG00000009790	TRAF3IP3 subnetwork	0.06686757	0.416809728
ENSG00000182568	SATB1 subnetwork	0.06704396	0.416825321
ENSG00000006125	AP2B1 subnetwork	0.06719165	0.417173397
MP:0008481	increased spleen germinal center number	0.06715117	0.417284831
MP:0004856	decreased ovary weight	0.06711829	0.417293054
ENSG00000132964	CDK8 subnetwork	0.06718948	0.417371673
ENSG00000185122	HSF1 subnetwork	0.06747194	0.419135802
ENSG00000102974	CTCF subnetwork	0.06752645	0.419269103
MP:0000358	abnormal cell morphology	0.0676754	0.419606449
ENSG00000163629	PTPN13 subnetwork	0.06765219	0.419710626
GO:0030055	cell-substrate junction	0.06794238	0.420141844
ENSG00000133961	NUMB subnetwork	0.06792161	0.420175024
ENSG00000023445	BIRC3 subnetwork	0.06790625	0.420231898
GO:0044087	regulation of cellular component biogenesis	0.06784148	0.420274751
GO:0005099	Ras GTPase activator activity	0.06788767	0.4203125
KEGG_VEGF_SIGNALING_PATH	KEGG_VEGF_SIGNALING_PATHWAY	0.06782744	0.420473934
ENSG00000111199	TRPV4 subnetwork	0.06830093	0.422448015
REACTOME_HOST_INTERACTIC	REACTOME_HOST_INTERACTIONS_OF_HIV_FACTORS	0.06839498	0.423098725

ENSG00000206429	ENSG00000206429 subnetwork	0.06866318	0.424033019
ENSG00000011422	PLAUR subnetwork	0.06870226	0.424210278
ENSG00000206502	ZNRD1 subnetwork	0.06866318	0.424233129
ENSG00000066379	ZNRD1 subnetwork	0.06866318	0.424433428
GO:0000228	nuclear chromosome	0.06884465	0.424740811
ENSG00000175104	TRAF6 subnetwork	0.06897929	0.425765426
GO:0002823	negative regulation of adaptive immune response based on	0.06904468	0.42594162
GO:0043401	steroid hormone mediated signaling pathway	0.06911722	0.426282353
ENSG00000107968	MAP3K8 subnetwork	0.06917094	0.426293509
ENSG00000088035	ALG6 subnetwork	0.06968728	0.429689704
ENSG00000108055	SMC3 subnetwork	0.06996016	0.431367481
KEGG_NEUROTROPHIN_SIGNALING_PATHWAY	KEGG_NEUROTROPHIN_SIGNALING_PATHWAY	0.07004746	0.431611085
ENSG00000204642	HLA-F subnetwork	0.07009827	0.431901408
ENSG00000076641	PAG1 subnetwork	0.07026634	0.432395687
ENSG00000168439	STIP1 subnetwork	0.0702525	0.432481238
ENSG00000172602	RND1 subnetwork	0.07024093	0.432660723
ENSG00000189403	HMGB1 subnetwork	0.07040697	0.4329274
MP:0003403	absent placental labyrinth	0.07039754	0.432989691
ENSG00000157388	CACNA1D subnetwork	0.07061395	0.434019654
ENSG00000100294	MCAT subnetwork	0.07061171	0.434199438
ENSG00000179632	MAF1 subnetwork	0.07069831	0.434448082
ENSG00000105369	CD79A subnetwork	0.07073457	0.434712482
ENSG00000005022	SLC25A5 subnetwork	0.0708398	0.435280374
MP:0005223	abnormal anterior-posterior polarity of the somites	0.0709999	0.435847735
GO:0032740	positive regulation of interleukin-17 production	0.07114387	0.436601307
GO:0070193	synaptonemal complex organization	0.07126272	0.437470835
GO:0008213	protein alkylation	0.07137753	0.437855478
GO:0006479	protein methylation	0.07137753	0.438059701
ENSG00000118495	PLAGL1 subnetwork	0.07150868	0.438560112
ENSG00000167815	PRDX2 subnetwork	0.07156138	0.438658593
GO:0008135	translation factor activity, nucleic acid binding	0.07172797	0.438906977
ENSG00000123358	NR4A1 subnetwork	0.07172346	0.439087948
GO:0006473	protein acetylation	0.07171957	0.439269088
ENSG000000004799	PDK4 subnetwork	0.07187053	0.439586239
GO:0016234	inclusion body	0.07196011	0.440032528
GO:0035145	exon-exon junction complex	0.07213834	0.4408732
ENSG00000188620	HMX3 subnetwork	0.07236734	0.441786543
GO:0031958	corticosteroid receptor signaling pathway	0.07235309	0.441968431
ENSG00000054523	KIF1B subnetwork	0.07270816	0.443947124
MP:0008561	decreased tumor necrosis factor secretion	0.07294545	0.444858731
ENSG00000144158	ENSG00000144158 subnetwork	0.07300209	0.444861111
ENSG00000156697	UTP14A subnetwork	0.0730311	0.444863489
KEGG_CHRONIC_MYELOID_LEUKEMIA	KEGG_CHRONIC_MYELOID_LEUKEMIA	0.07289703	0.444993046
GO:0042176	regulation of protein catabolic process	0.07293664	0.444995366
ENSG00000068971	PPP2R5B subnetwork	0.07308592	0.445004625
ENSG00000071462	WBSR22 subnetwork	0.07317432	0.445376791
MP:0011260	abnormal head mesenchyme morphology	0.07329353	0.445590951
ENSG00000049246	PER3 subnetwork	0.07328598	0.445750577
GO:0009894	regulation of catabolic process	0.07325969	0.445887246
ENSG00000143384	MCL1 subnetwork	0.07347344	0.446492847
ENSG00000198518	HIST1H4E subnetwork	0.07405289	0.446706313
ENSG00000128602	SMO subnetwork	0.07408264	0.446753544
MP:0002665	decreased circulating corticosterone level	0.07411805	0.446846435

ENSG00000158406	HIST1H4H subnetwork	0.07405289	0.446910755
ENSG00000183941	HIST2H4A subnetwork	0.07405289	0.447115385
ENSG00000086205	FOLH1 subnetwork	0.07421898	0.447304705
ENSG00000198558	HIST1H4L subnetwork	0.07405289	0.447320202
ENSG00000135900	MRPL44 subnetwork	0.07367122	0.447395113
ENSG00000110042	DTX4 subnetwork	0.07365538	0.4474631
ENSG00000197238	HIST1H4J subnetwork	0.07405289	0.447525206
ENSG00000197914	HIST1H4K subnetwork	0.07405289	0.447730399
MP:0001732	postnatal growth retardation	0.07434633	0.447899543
GO:0005815	microtubule organizing center	0.07442531	0.44790146
ENSG00000197061	HIST1H4C subnetwork	0.07405289	0.44793578
ENSG00000198641	ENSG00000198641 subnetwork	0.0743951	0.447968964
ENSG00000198339	HIST1H4I subnetwork	0.07405289	0.448141349
ENSG00000197837	HIST4H4 subnetwork	0.07405289	0.448347107
ENSG00000124529	HIST1H4B subnetwork	0.07405289	0.448553055
ENSG00000182217	HIST2H4B subnetwork	0.07405289	0.448759191
GO:0007130	synaptonemal complex assembly	0.0739034	0.448894009
ENSG00000188987	HIST1H4D subnetwork	0.07405289	0.448965517
GO:0001637	G-protein coupled chemoattractant receptor activity	0.07401158	0.44914825
ENSG00000196176	HIST1H4A subnetwork	0.07405289	0.449172033
GO:0004950	chemokine receptor activity	0.07401158	0.449355136
ENSG00000198327	HIST1H4F subnetwork	0.07405289	0.449378739
MP:0011228	abnormal vitamin D level	0.07475185	0.449863263
KEGG_ANTIGEN_PROCESSING_KEGG_ANTIGEN_PROCESSING_AND_PRESENTATION		0.0748102	0.449954442
ENSG00000139436	GIT2 subnetwork	0.07474061	0.45
REACTOME_PECAM1_INTERAC REACTOME_PECAM1_INTERACTIONS		0.07504952	0.450318182
ENSG00000175029	CTBP2 subnetwork	0.07501804	0.450409277
ENSG00000116062	MSH6 subnetwork	0.0749801	0.450454959
ENSG00000180353	HCLS1 subnetwork	0.07497285	0.450637233
GO:0042267	natural killer cell mediated cytotoxicity	0.07518349	0.450681199
ENSG00000069667	RORA subnetwork	0.07496869	0.450819672
GO:0040018	positive regulation of multicellular organism growth	0.07523296	0.450839764
GO:0002228	natural killer cell mediated immunity	0.07518349	0.450885961
ENSG00000103510	KAT8 subnetwork	0.07528458	0.451020871
GO:0045063	T-helper 1 cell differentiation	0.07548215	0.451903898
MP:0004851	increased testis weight	0.07547268	0.452018141
ENSG00000173511	VEGFB subnetwork	0.07561709	0.452695967
ENSG00000169567	HINT1 subnetwork	0.07608998	0.455545496
GO:0002224	toll-like receptor signaling pathway	0.07608255	0.455548007
ENSG00000156482	RPL30 subnetwork	0.07614988	0.455769231
ENSG00000105379	ETFB subnetwork	0.07621425	0.455786618
MP:0002024	T cell derived lymphoma	0.07620016	0.455879692
ENSG00000166530	ENSG00000166530 subnetwork	0.07651365	0.457162223
ENSG00000116830	TTF2 subnetwork	0.07664021	0.457562077
ENSG00000079102	RUNX1T1 subnetwork	0.07663508	0.457746161
GO:0000981	sequence-specific DNA binding RNA polymerase II transcrip	0.07674935	0.45823556
KEGG_GNRH_SIGNALING_PATHWAY	KEGG_GNRH_SIGNALING_PATHWAY	0.07686234	0.45879567
ENSG00000106006	HOXA6 subnetwork	0.07715429	0.460045045
GO:0005814	centriole	0.07713985	0.46011717
ENSG00000159259	CHAF1B subnetwork	0.07712656	0.460234445
ENSG00000183735	TBK1 subnetwork	0.07737135	0.461458802
ENSG00000187555	USP7 subnetwork	0.07751592	0.46194332
ENSG00000103319	EEF2K subnetwork	0.07750874	0.462128713

ENSG00000012983	MAP4K5 subnetwork	0.07760184	0.46227518
ENSG00000006062	MAP3K14 subnetwork	0.07768786	0.462348451
GO:0035064	methyated histone residue binding	0.07764919	0.462382022
ENSG00000163624	CDS1 subnetwork	0.07768462	0.462556155
REACTOME_BILE_SALT_AND_C	REACTOME_BILE_SALT_AND_ORGANIC_ANION_SLC_TRAN:	0.07786131	0.463263016
ENSG00000116489	CAPZA1 subnetwork	0.07790198	0.463324361
GO:0042990	regulation of transcription factor import into nucleus	0.07801168	0.463744395
ENSG00000161980	POLR3K subnetwork	0.07811835	0.464141641
ENSG00000169429	IL8 subnetwork	0.0783273	0.464717742
ENSG00000150630	VEGFC subnetwork	0.07837004	0.464845499
ENSG00000070423	RNF126 subnetwork	0.07846853	0.465219338
ENSG00000196557	CACNA1H subnetwork	0.07867151	0.466144902
ENSG00000085224	ATRX subnetwork	0.07869879	0.466182387
MP:0001505	hunched posture	0.07881157	0.466205357
ENSG00000117020	AKT3 subnetwork	0.07880142	0.466324252
MP:0000274	enlarged heart	0.07865868	0.466331096
ENSG00000110092	CCND1 subnetwork	0.07878855	0.466510277
ENSG00000128829	EIF2AK4 subnetwork	0.07891597	0.466733601
GO:0006475	internal protein amino acid acetylation	0.07906175	0.467216771
ENSG00000105618	PRPF31 subnetwork	0.0792383	0.467602496
ENSG00000170653	ATF7 subnetwork	0.07921611	0.46769951
ENSG00000114686	MRPL3 subnetwork	0.07939661	0.468121104
REACTOME_IRAK2_MEDIATED	REACTOME_IRAK2_MEDIATED_ACTIVATION_OF_TAK1_COI	0.07937326	0.468195991
ENSG00000212981	ENSG00000212981 subnetwork	0.07949151	0.468460854
MP:0003704	abnormal hair follicle development	0.07948611	0.468647085
ENSG00000087077	TRIP6 subnetwork	0.08002676	0.469525709
ENSG00000143799	PARP1 subnetwork	0.07986685	0.469529516
ENSG00000157514	TSC22D3 subnetwork	0.07979525	0.469538188
MP:0003936	abnormal reproductive system development	0.07973265	0.469577778
ENSG00000128654	MTX2 subnetwork	0.07999551	0.469600887
REACTOME_POST:TRANSLATIO	REACTOME_POST:TRANSLATIONAL_PROTEIN_MODIFICATI	0.07978543	0.469613505
ENSG00000173110	HSPA6 subnetwork	0.07970673	0.469697643
ENSG00000101945	SUV39H1 subnetwork	0.07998677	0.469787045
GO:0016799	hydrolase activity, hydrolyzing N-glycosyl compounds	0.08044351	0.470079435
ENSG00000120656	TAF12 subnetwork	0.08014183	0.470093044
ENSG00000204632	HLA-G subnetwork	0.08035349	0.470128148
ENSG00000135605	TEC subnetwork	0.08018501	0.470172719
ENSG00000085662	AKR1B1 subnetwork	0.08039805	0.470229682
ENSG00000183779	ZNF703 subnetwork	0.08028597	0.470243363
ENSG00000118689	FOXO3 subnetwork	0.08044136	0.470286976
ENSG00000206506	HLA-G subnetwork	0.08035349	0.470335986
ENSG00000101751	POLI subnetwork	0.08028369	0.470451527
ENSG00000206443	ENSG00000206443 subnetwork	0.08035349	0.470544007
MP:0008000	increased ovary tumor incidence	0.08078932	0.471835024
GO:0030296	protein tyrosine kinase activator activity	0.08081482	0.471891534
ENSG00000166266	CUL5 subnetwork	0.08091523	0.472344645
ENSG00000148773	MKI67 subnetwork	0.08106671	0.472929515
ENSG00000130024	PHF10 subnetwork	0.08118418	0.473425804
ENSG00000185432	METTL7A subnetwork	0.08137474	0.473594025
MP:0008813	decreased common myeloid progenitor cell number	0.08134933	0.473604396
GO:0045646	regulation of erythrocyte differentiation	0.08133689	0.473790677
ENSG00000163904	SENP2 subnetwork	0.08133186	0.473867136
ENSG00000099246	RAB18 subnetwork	0.08130166	0.473921655

ENSG00000112249	ASCC3 subnetwork	0.08157159	0.474769433
GO:0016877	ligase activity, forming carbon-sulfur bonds	0.08171284	0.475460931
GO:0043235	receptor complex	0.08180148	0.476107942
GO:0000299	integral to membrane of membrane fraction	0.08202105	0.477005699
ENSG00000133056	PIK3C2B subnetwork	0.08205119	0.477059597
ENSG00000204673	AKT1S1 subnetwork	0.08201932	0.477214912
MP:0004462	small basisphenoid bone	0.08217456	0.477332457
ENSG00000205155	PSENEN subnetwork	0.08232827	0.477734033
ENSG00000117242	ENSG00000117242 subnetwork	0.08228045	0.47778021
ENSG00000182367	ENSG00000182367 subnetwork	0.08232398	0.477921225
ENSG00000186575	NF2 subnetwork	0.08248182	0.478452797
KEGG_GLYOXYLATE_AND_DICARBOXYLATE_METABOLISM	KEGG_GLYOXYLATE_AND_DICARBOXYLATE_METABOLISM	0.08259774	0.478459188
ENSG00000168255	POLR2J3 subnetwork	0.08256811	0.478471616
ENSG00000119335	SET subnetwork	0.08246512	0.478552689
ENSG00000197373	ENSG00000197373 subnetwork	0.08256811	0.478680647
ENSG00000078328	RBFOX1 subnetwork	0.08268777	0.478861257
ENSG00000161654	LSM12 subnetwork	0.08314752	0.481045752
ENSG00000121390	PSPC1 subnetwork	0.08307214	0.481051025
MP:0001876	decreased inflammatory response	0.08310582	0.481081081
MP:0001882	abnormal lactation	0.08324328	0.481315331
ENSG00000161405	IKZF3 subnetwork	0.08330026	0.481562908
ENSG00000120693	SMAD9 subnetwork	0.08337848	0.48181027
MP:0005452	abnormal adipose tissue amount	0.0834334	0.482013919
MP:0002687	oligozoospermia	0.08370528	0.482971329
MP:0011501	increased glomerular capsule space	0.08368308	0.483007388
REACTOME_GPVI:MEDIATED_ACTIVATION_CASCADE	REACTOME_GPVI:MEDIATED_ACTIVATION_CASCADE	0.08366487	0.483043478
GO:0001934	positive regulation of protein phosphorylation	0.08388879	0.483890578
ENSG00000070950	RAD18 subnetwork	0.08397031	0.483984375
MP:0002875	decreased erythrocyte cell number	0.08408412	0.484533623
MP:0002833	increased heart weight	0.08416758	0.485060711
ENSG00000197442	MAP3K5 subnetwork	0.08419697	0.485110533
ENSG00000161395	PGAP3 subnetwork	0.08435029	0.486070191
GO:0032387	negative regulation of intracellular transport	0.08438713	0.486119532
ENSG00000163466	ARPC2 subnetwork	0.08450252	0.486493506
ENSG00000109906	ZBTB16 subnetwork	0.08452954	0.486542622
GO:0017017	MAP kinase tyrosine/serine/threonine phosphatase activity	0.08478612	0.487743191
MP:0010876	decreased bone volume	0.08477072	0.487867647
ENSG00000120889	TNFRSF10B subnetwork	0.08499827	0.488915298
GO:0016878	acid-thiol ligase activity	0.08519434	0.489848812
ENSG00000111348	ARHGDIB subnetwork	0.08523793	0.489917962
MP:0002637	small uterus	0.08533744	0.490418645
GO:0048524	positive regulation of viral reproduction	0.08566908	0.491451335
MP:0001231	abnormal epidermis stratum basale morphology	0.08557011	0.491461837
ENSG00000115953	ENSG00000115953 subnetwork	0.08564006	0.491490737
ENSG00000114857	NKTR subnetwork	0.08561256	0.491508621
ENSG00000138293	NCOA4 subnetwork	0.08554344	0.491587575
MP:0003718	maternal effect	0.08583651	0.492362306
MP:0004256	abnormal maternal decidua morphology	0.08580774	0.492380542
ENSG00000132522	GPS2 subnetwork	0.0858675	0.492387097
MP:0000136	abnormal microglial cell morphology	0.0859296	0.492583835
MP:0004796	increased anti-histone antibody level	0.0861804	0.49370434
ENSG00000135679	MDM2 subnetwork	0.08630312	0.494308419
ENSG00000145901	TNIP1 subnetwork	0.08643531	0.494592275

ENSG00000115661	STK16 subnetwork	0.08641823	0.494654358
REACTOME_REGULATION_OF_REACTOME_REGULATION_OF_KIT_SIGNALING		0.08675768	0.495289079
ENSG00000172288	CDY1 subnetwork	0.0867162	0.495351328
ENSG00000172352	CDY1B subnetwork	0.0867162	0.495563652
GO:0050691	regulation of defense response to virus by host	0.08666601	0.495688546
ENSG00000111674	ENO2 subnetwork	0.08688838	0.495719178
ENSG00000196419	XRCC6 subnetwork	0.08670376	0.495754717
GO:0032231	regulation of actin filament bundle assembly	0.08695645	0.496041934
ENSG00000168298	HIST1H1E subnetwork	0.08713551	0.497027374
GO:0046782	regulation of viral transcription	0.08756101	0.497169008
ENSG00000125695	STRADA subnetwork	0.08752338	0.497189097
ENSG00000119383	PPP2R4 subnetwork	0.08736038	0.497288642
MP:0002599	increased mean platelet volume	0.0873835	0.497289799
ENSG00000100097	LGALS1 subnetwork	0.087264	0.497370671
GO:0001047	core promoter binding	0.08751764	0.497400937
GO:0032870	cellular response to hormone stimulus	0.08748608	0.497421142
ENSG00000167004	PDIA3 subnetwork	0.08735052	0.497436993
MP:0002594	low mean erythrocyte cell number	0.08746659	0.49750533
ENSG00000028277	POU2F2 subnetwork	0.08744971	0.497610922
GO:0006913	nucleocytoplasmic transport	0.08734659	0.497649573
GO:0046640	regulation of alpha-beta T cell proliferation	0.08772621	0.498191489
ENSG00000147140	NONO subnetwork	0.08779483	0.498319864
MP:0001200	thick skin	0.08795497	0.49914966
GO:0045471	response to ethanol	0.08806596	0.499490013
MP:0008019	increased liver tumor incidence	0.0881282	0.499553951
GO:0002828	regulation of type 2 immune response	0.08822696	0.499745223
MP:0011348	abnormal renal glomerulus basement membrane morphol	0.08830302	0.5
ENSG00000184634	MED12 subnetwork	0.08836626	0.500530335
ENSG00000197312	DDI2 subnetwork	0.08856653	0.501292373
REACTOME_IRAK2_MEDIATED_REACTOME_IRAK2_MEDIATED_ACTIVATION_OF_TAK1_COI		0.08856637	0.501504875
MP:0008294	abnormal zona fasciculata morphology	0.0886297	0.501545955
GO:0031903	microbody membrane	0.08870987	0.501650444
REACTOME_TRAF6_MEDIATED_REACTOME_TRAF6_MEDIATED_INDUCATION_OF_TAK1_COM		0.08856637	0.501717557
GO:0005778	peroxisomal membrane	0.08870987	0.501862828
GO:0042510	regulation of tyrosine phosphorylation of Stat1 protein	0.08885672	0.50251692
MP:0000154	rib fusion	0.08892476	0.502748414
ENSG00000005175	RPAP3 subnetwork	0.08935736	0.504898649
MP:0000601	small liver	0.08928634	0.505029586
GO:0010638	positive regulation of organelle organization	0.08935102	0.505069708
ENSG00000130338	TULP4 subnetwork	0.08950057	0.505593077
ENSG00000171475	WIPF2 subnetwork	0.08957815	0.505607083
ENSG00000160972	PPP1R16A subnetwork	0.089529	0.505654008
GO:0042130	negative regulation of T cell proliferation	0.08956947	0.505757065
ENSG00000105221	AKT2 subnetwork	0.08966357	0.505941846
MP:0000062	increased bone mineral density	0.09007842	0.507873684
MP:0002642	anisocytosis	0.09007288	0.508066554
ENSG00000153774	CFDP1 subnetwork	0.09021866	0.50848064
GO:0031965	nuclear membrane	0.09029143	0.508876735
ENSG00000067334	DNTTIP2 subnetwork	0.09091611	0.511680672
ENSG00000077809	GTF2I subnetwork	0.09086495	0.511732548
ENSG00000213246	SUPT4H1 subnetwork	0.09090026	0.511790668
GO:0070482	response to oxygen levels	0.09110099	0.512258606
ENSG00000130175	PRKCSH subnetwork	0.09121688	0.512285115

ENSG00000177889	UBE2N subnetwork	0.09113644	0.512316408
ENSG00000169398	PTK2 subnetwork	0.09109155	0.512431751
ENSG00000196277	GRM7 subnetwork	0.09119865	0.512458054
MP:0001824	abnormal thymus involution	0.09155645	0.514312657
ENSG00000004700	RECQL subnetwork	0.09180154	0.515347571
ENSG00000166200	COPS2 subnetwork	0.09180056	0.515542522
ENSG00000164111	ANXA5 subnetwork	0.09188401	0.515780661
ENSG00000092470	WDR76 subnetwork	0.09196945	0.516087866
ENSG00000010278	CD9 subnetwork	0.09201912	0.51622752
ENSG00000169756	LIMS1 subnetwork	0.09211714	0.516346154
ENSG00000100206	DMC1 subnetwork	0.09233092	0.517467614
GO:0004713	protein tyrosine kinase activity	0.09251651	0.518400167
MP:0000890	thin cerebellar molecular layer	0.09255735	0.518413361
ENSG00000198216	CACNA1E subnetwork	0.09269954	0.519198664
GO:0032312	regulation of ARF GTPase activity	0.09286544	0.520254485
REACTOME_TERMINATION_OF	REACTOME_TERMINATION_OF_O:GLYCAN_BIOSYNTHESIS	0.09294618	0.520391993
KEGG_VALINE_LEUCINE_AND_	KEGG_VALINE_LEUCINE_AND_ISOLEUCINE_DEGRADATION	0.09313405	0.520545379
ENSG00000197081	IGF2R subnetwork	0.09301966	0.520654439
ENSG00000120087	HOXB7 subnetwork	0.09311634	0.520699708
MP:0001190	reddish skin	0.09310315	0.520854167
ENSG00000117984	CTSD subnetwork	0.09327275	0.521348315
ENSG00000008405	CRY1 subnetwork	0.09332272	0.52140183
MP:0005566	decreased blood urea nitrogen level	0.09358417	0.522765073
GO:0051879	Hsp90 protein binding	0.09362732	0.522880299
ENSG00000075884	ARHGAP15 subnetwork	0.09370633	0.522902824
ENSG00000017427	IGF1 subnetwork	0.09368122	0.522912339
ENSG00000133794	ARNTL subnetwork	0.09376462	0.523059361
GO:0044439	peroxisomal part	0.09383427	0.52330983
GO:0072329	monocarboxylic acid catabolic process	0.09387213	0.523320896
ENSG00000165912	PACSIN3 subnetwork	0.09391887	0.523331952
GO:0042359	vitamin D metabolic process	0.09402162	0.523436853
GO:0044438	microbody part	0.09383427	0.523526971
GO:0030983	mismatched DNA binding	0.09400408	0.523612262
GO:0046635	positive regulation of alpha-beta T cell activation	0.09413973	0.523861755
ENSG00000102054	RBBP7 subnetwork	0.09421983	0.524141498
ENSG00000167721	TSR1 subnetwork	0.0943385	0.524545079
KEGG_PATHOGENIC_ESCHERIC	KEGG_PATHOGENIC_ESCHERICHIA_COLI_INFECTION	0.09442725	0.524948326
MP:0002060	abnormal skin morphology	0.09465714	0.525815779
REACTOME_HIV_INFECTION	REACTOME_HIV_INFECTION	0.09465508	0.526033058
ENSG00000134480	CCNH subnetwork	0.09472308	0.526114781
GO:0016571	histone methylation	0.09518099	0.528403465
GO:0017124	SH3 domain binding	0.09520761	0.528453608
GO:0004622	lysophospholipase activity	0.09517846	0.528600908
GO:0002920	regulation of humoral immune response	0.09528939	0.528751031
GO:0050709	negative regulation of protein secretion	0.09530993	0.528800989
MP:0002575	increased circulating ketone body level	0.09557211	0.530313015
MP:0004404	cochlear outer hair cell degeneration	0.09565196	0.530390947
GO:0000781	chromosome, telomeric region	0.0956404	0.530568135
GO:0000242	pericentriolar material	0.09583951	0.531283422
ENSG00000140319	SRP14 subnetwork	0.09606034	0.531350021
GO:0001741	XY body	0.09609593	0.531378179
ENSG00000090060	PAPOLA subnetwork	0.0960033	0.531437372
ENSG00000126602	TRAP1 subnetwork	0.09603995	0.531444992

REACTOME_BRANCHED:CHAIN	REACTOME_BRANCHED:CHAIN_AMINO_ACID_CATABOLISM	0.09597132	0.531491372
ENSG00000172893	DHCR7 subnetwork	0.09594839	0.531586519
MP:0010264	increased hepatoma incidence	0.09593936	0.53176398
GO:0090317	negative regulation of intracellular protein transport	0.096271	0.532123821
MP:0003451	absent olfactory bulb	0.09633521	0.532213115
MP:0008539	decreased susceptibility to induced colitis	0.09648283	0.53269152
ENSG00000165704	HPRT1 subnetwork	0.09657619	0.532964783
ENSG00000132646	PCNA subnetwork	0.09695969	0.534916087
MP:0004805	absent oocytes	0.09708562	0.535071575
GO:0042991	transcription factor import into nucleus	0.09706123	0.5351473
GO:0005912	adherens junction	0.09731198	0.535504287
GO:0006305	DNA alkylation	0.09729532	0.535661765
GO:0006266	DNA ligation	0.09723594	0.535752249
GO:0006306	DNA methylation	0.09729532	0.53588067
GO:0033081	regulation of T cell differentiation in thymus	0.09744353	0.536020408
GO:0032041	NAD-dependent histone deacetylase activity (H3-K14 specif	0.09762383	0.53610998
GO:0009081	branched chain family amino acid metabolic process	0.09765425	0.536217427
GO:0046970	NAD-dependent histone deacetylase activity (H4-K16 specif	0.09762383	0.536328443
MP:0004978	decreased B-1 B cell number	0.09754365	0.536515708
GO:0031078	histone deacetylase activity (H3-K14 specific)	0.09762383	0.536547085
GO:0034739	histone deacetylase activity (H4-K16 specific)	0.09762383	0.536765905
ENSG00000213281	NRAS subnetwork	0.09798573	0.53751525
GO:0071826	ribonucleoprotein complex subunit organization	0.09798181	0.537713588
ENSG00000113758	DBN1 subnetwork	0.09794207	0.537769638
ENSG00000164605	ENSG00000164605 subnetwork	0.09811746	0.53800813
ENSG00000171105	INSR subnetwork	0.09819666	0.538419342
ENSG00000151846	PABPC3 subnetwork	0.09843208	0.53954527
ENSG00000142039	CCDC97 subnetwork	0.09848989	0.539650974
MP:0003203	increased neuron apoptosis	0.09840719	0.539662876
ENSG00000167971	CASKIN1 subnetwork	0.09863746	0.540365112
ENSG00000100079	LGALS2 subnetwork	0.09879353	0.541038118
ENSG00000163956	LRPAP1 subnetwork	0.09905896	0.542359141
MP:0002223	lymphoid hypoplasia	0.09910198	0.542443274
ENSG00000066926	FECH subnetwork	0.09919896	0.542689348
GO:0051169	nuclear transport	0.09931905	0.542938082
MP:0000334	decreased granulocyte number	0.09930484	0.543117409
ENSG00000072195	SPEG subnetwork	0.09948647	0.543270008
ENSG00000165943	MOAP1 subnetwork	0.09946489	0.543327942
ENSG00000133657	ATP13A3 subnetwork	0.09940804	0.543365696
ENSG00000174547	MRPL11 subnetwork	0.09957887	0.543555556
ENSG00000132382	MYBBP1A subnetwork	0.09966873	0.543820679
ENSG00000168118	RAB4A subnetwork	0.09974073	0.543964473
GO:0050792	regulation of viral reproduction	0.09984237	0.544249395
MP:0003077	abnormal cell cycle	0.10010359	0.545663574
GO:0016573	histone acetylation	0.10024987	0.546350806
ENSG00000196782	MAML3 subnetwork	0.10034911	0.546434327
ENSG00000102753	KPNA3 subnetwork	0.10033288	0.546513503
MP:0002419	abnormal innate immunity	0.10040072	0.546536448
MP:0004532	abnormal inner hair cell stereociliary bundle morphology	0.10060479	0.547162978
MP:0005605	increased bone mass	0.10059024	0.547242351
GO:0016604	nuclear body	0.10084362	0.54800965
ENSG00000105953	OGDH subnetwork	0.10084112	0.548230088
MP:0001541	abnormal osteoclast physiology	0.10117967	0.549678457

ENSG00000148408	CACNA1B subnetwork	0.10143727	0.550481734
ENSG00000143851	PTPN7 subnetwork	0.10133966	0.550542387
ENSG00000143155	TIPRL subnetwork	0.10152816	0.55062199
KEGG_GLYCEROLIPID_METABOLISM	KEGG_GLYCEROLIPID_METABOLISM	0.10141317	0.55064257
GO:0042503	tyrosine phosphorylation of Stat3 protein	0.10157144	0.550681909
GO:0021591	ventricular system development	0.10168579	0.551182839
ENSG00000100354	TNRC6B subnetwork	0.10172554	0.551302605
ENSG00000126457	PRMT1 subnetwork	0.10187844	0.552103365
GO:0032784	regulation of transcription elongation, DNA-dependent	0.10193942	0.552202643
ENSG00000173465	SSSCA1 subnetwork	0.10198811	0.552281825
REACTOME_EICOSANOID_LIGAND_BINDING_RECEPTORS	REACTOME_EICOSANOID_LIGAND_BINDING_RECEPTORS	0.10236619	0.553154952
MP:0005097	polychromatophilia	0.1021801	0.553161265
ENSG00000058729	RIOK2 subnetwork	0.10233033	0.553236117
GO:0043433	negative regulation of sequence-specific DNA binding trans	0.10229103	0.55333733
ENSG00000204628	GNB2L1 subnetwork	0.10224015	0.55336
GO:0043507	positive regulation of JUN kinase activity	0.10228703	0.553518593
ENSG00000183337	BCOR subnetwork	0.10272439	0.55430622
ENSG00000115145	STAM2 subnetwork	0.10257422	0.554331337
MP:0008722	abnormal chemokine secretion	0.10271869	0.554527323
ENSG00000110768	GTF2H1 subnetwork	0.10267254	0.554569034
ENSG00000113522	RAD50 subnetwork	0.10313597	0.555069583
KEGG_PHOSPHATIDYLINOSITOL_SIGNALING_SYSTEM	KEGG_PHOSPHATIDYLINOSITOL_SIGNALING_SYSTEM	0.10312271	0.555290374
KEGG_ERBB_SIGNALING_PATHWAY	KEGG_ERBB_SIGNALING_PATHWAY	0.10311796	0.555491444
ENSG00000162736	NCSTN subnetwork	0.10307833	0.555493631
ENSG00000081377	CDC14B subnetwork	0.10303779	0.555535643
ENSG00000117091	CD48 subnetwork	0.10300581	0.55563745
ENSG00000140264	SERF2 subnetwork	0.10298455	0.55571941
MP:0005596	increased susceptibility to type I hypersensitivity reaction	0.10342281	0.556173085
GO:0030140	trans-Golgi network transport vesicle	0.10356932	0.556185567
ENSG00000211460	TSN subnetwork	0.10353899	0.556267354
ENSG00000176974	SHMT1 subnetwork	0.10341608	0.556374106
REACTOME_TAT:MEDIATED_HIV_1_ELONGATION_ARREST	REACTOME_TAT:MEDIATED_HIV_1_ELONGATION_ARREST	0.10340345	0.556475963
GO:0007589	body fluid secretion	0.10353466	0.556488095
REACTOME_PAUSING_AND_RECOVERY_OF_TAT:MEDIATE	REACTOME_PAUSING_AND_RECOVERY_OF_TAT:MEDIATE	0.10340345	0.556697138
MP:0003149	abnormal tectorial membrane morphology	0.10378476	0.557230586
ENSG00000065243	PKN2 subnetwork	0.10387707	0.557405941
MP:0002972	abnormal cardiac muscle contractility	0.10376529	0.557431629
GO:0033158	regulation of protein import into nucleus, translocation	0.10395205	0.557439652
ENSG00000102001	CACNA1F subnetwork	0.1039456	0.557660333
ENSG00000111615	KRR1 subnetwork	0.10426442	0.559018987
KEGG_O_GLYCAN_BIOSYNTHESIS	KEGG_O_GLYCAN_BIOSYNTHESIS	0.10457194	0.559033531
GO:0032816	positive regulation of natural killer cell activation	0.10449263	0.559040663
ENSG00000070159	PTPN3 subnetwork	0.10453978	0.559076559
ENSG00000103653	CSK subnetwork	0.10449053	0.559261453
ENSG00000104884	ERCC2 subnetwork	0.10448552	0.559482418
KEGG_INSULIN_SIGNALING_PATHWAY	KEGG_INSULIN_SIGNALING_PATHWAY	0.10440444	0.559489917
ENSG00000105849	TWISTNB subnetwork	0.10445929	0.559525692
ENSG00000078304	PPP2R5C subnetwork	0.10469979	0.559582019
ENSG00000198719	DLL1 subnetwork	0.10482346	0.559712372
ENSG00000122140	MRPS2 subnetwork	0.10481678	0.559913283
MP:0006262	testis tumor	0.10504334	0.559968541
GO:0070232	regulation of T cell apoptotic process	0.1050146	0.560011802
ENSG00000136628	EPRS subnetwork	0.10492699	0.560019685

MP:0000367	abnormal coat/ hair morphology	0.10491083	0.560200866
ENSG00000109606	DHX15 subnetwork	0.10500561	0.560212515
ENSG00000186446	ZNF501 subnetwork	0.10517632	0.560573899
REACTOME_NF:KB_ACTIVATIO	REACTOME_NF:KB_ACTIVATION_THROUGH_FADDRIP:1_PA	0.10543537	0.561567164
ENSG00000148719	DNAJB12 subnetwork	0.10541603	0.561689587
ENSG00000151929	BAG3 subnetwork	0.10555902	0.561896349
MP:0008168	decreased B-1a cell number	0.10559673	0.561989796
ENSG00000215902	ENSG00000215902 subnetwork	0.10574771	0.562691251
MP:0001201	translucent skin	0.10598033	0.564117647
ENSG00000090339	ICAM1 subnetwork	0.10630829	0.56586369
REACTOME_CREB_PHOSPHOR	REACTOME_CREB_PHOSPHORYLATION_THROUGH_THE_AC	0.1062891	0.566007053
GO:0051496	positive regulation of stress fiber assembly	0.10628684	0.56622893
MP:0000607	abnormal hepatocyte morphology	0.10638793	0.566229444
GO:0009062	fatty acid catabolic process	0.10660952	0.567312207
ENSG000000088247	KHSRP subnetwork	0.10660253	0.567514677
MP:0000823	abnormal lateral ventricle morphology	0.10679584	0.567970278
GO:0031968	organelle outer membrane	0.1069429	0.568666927
GO:0018394	peptidyl-lysine acetylation	0.10704964	0.569030871
GO:0019104	DNA N-glycosylase activity	0.10721775	0.569367435
ENSG00000132475	H3F3B subnetwork	0.10739854	0.569368667
ENSG00000121057	AKAP1 subnetwork	0.10716466	0.569394531
ENSG00000163041	H3F3A subnetwork	0.10739854	0.569590643
ENSG00000196285	ENSG00000196285 subnetwork	0.10739854	0.569812793
ENSG00000105443	CYTH2 subnetwork	0.10732857	0.569828259
MP:0000930	wavy neural tube	0.10738925	0.569996098
GO:0018393	internal peptidyl-lysine acetylation	0.10765284	0.570802493
ENSG00000136436	CALCOCO2 subnetwork	0.10782106	0.571397975
ENSG00000136448	NMT1 subnetwork	0.10789698	0.571701051
ENSG00000147099	HDAC8 subnetwork	0.10794749	0.571964981
GO:0046930	pore complex	0.10806626	0.572500972
ENSG00000162734	PEA15 subnetwork	0.10817793	0.572881026
ENSG00000173894	CBX2 subnetwork	0.10833694	0.573493976
GO:0060603	mammary gland duct morphogenesis	0.10865042	0.5747669
KEGG_CELL_ADHESION_MOLE	KEGG_CELL_ADHESION_MOLECULES_CAMS	0.10892087	0.576174757
GO:0046578	regulation of Ras protein signal transduction	0.10896905	0.576242236
ENSG00000076043	REXO2 subnetwork	0.10906262	0.576338247
GO:0042516	regulation of tyrosine phosphorylation of Stat3 protein	0.10904048	0.576503686
ENSG00000173418	NAA20 subnetwork	0.10968768	0.57937185
GO:0009896	positive regulation of catabolic process	0.11003824	0.579744878
ENSG00000079432	CIC subnetwork	0.11013658	0.579760525
REACTOME_PAUSING_AND_R	REACTOME_PAUSING_AND_RECOVERY_OF_HIV:1_ELONGA	0.10999601	0.579775715
ENSG00000095794	CREM subnetwork	0.11019927	0.579826255
GO:0031300	intrinsic to organelle membrane	0.11010474	0.579868624
REACTOME_HIV:1_ELONGAT	REACTOME_HIV:1_ELONGATION_ARREST_AND_RECOVERY	0.10999601	0.58
ENSG00000165288	BRWD3 subnetwork	0.11033383	0.580042422
ENSG00000166986	MARS subnetwork	0.11031028	0.580073302
ENSG00000072694	FCGR2B subnetwork	0.10983654	0.580077519
REACTOME_ELONGATION_AR	REACTOME_ELONGATION_ARREST_AND_RECOVERY	0.10999601	0.580224458
GO:0035173	histone kinase activity	0.11030827	0.580297183
ENSG00000182093	WRB subnetwork	0.10992687	0.580337079
ENSG00000129460	NGDN subnetwork	0.11042177	0.580339244
ENSG00000151067	CACNA1C subnetwork	0.1099725	0.580422153
REACTOME_PAUSING_AND_R	REACTOME_PAUSING_AND_RECOVERY_OF_ELONGATION	0.10999601	0.58044909

ENSG00000140443	IGF1R subnetwork	0.11052286	0.580674374
MP:0000223	decreased monocyte cell number	0.11054476	0.580701079
ENSG00000183520	UTP11L subnetwork	0.1106844	0.581382364
GO:0008022	protein C-terminus binding	0.11076791	0.581620477
MP:0006380	abnormal spermatid morphology	0.11081591	0.581704502
ENSG00000039123	SKIV2L2 subnetwork	0.11111149	0.583019231
KEGG_VIRAL_MYOCARDITIS	KEGG_VIRAL_MYOCARDITIS	0.11153673	0.585409458
ENSG00000204490	TNF subnetwork	0.11195535	0.585914143
ENSG00000137574	TGS1 subnetwork	0.1116736	0.586010761
ENSG00000206328	ENSG00000206328 subnetwork	0.11195535	0.586138804
ENSG00000142655	PEX14 subnetwork	0.11181307	0.586199616
ENSG00000137285	TUBB2B subnetwork	0.11178131	0.586271121
ENSG00000181467	RAP2B subnetwork	0.11174404	0.586304264
MP:0002411	decreased susceptibility to bacterial infection	0.11191233	0.586320031
ENSG00000206439	TNF subnetwork	0.11195535	0.586363636
ENSG00000114315	HES1 subnetwork	0.1123008	0.587758621
ENSG00000100324	TAB1 subnetwork	0.11286436	0.58970532
ENSG00000006468	ETV1 subnetwork	0.11277195	0.589735733
MP:0005222	abnormal somite size	0.11281635	0.589758806
ENSG00000147649	MTDH subnetwork	0.11301242	0.590187452
ENSG00000214122	ENSG00000214122 subnetwork	0.11308046	0.590458891
ENSG00000143669	LYST subnetwork	0.11345641	0.591676212
ENSG00000187109	NAP1L1 subnetwork	0.11344251	0.59184492
GO:0050431	transforming growth factor beta binding	0.11341773	0.591899121
ENSG00000204104	TRAF3IP1 subnetwork	0.11341622	0.592125382
ENSG00000008838	MED24 subnetwork	0.11369005	0.592671756
ENSG00000082146	STRADB subnetwork	0.11400133	0.592675038
GO:0022409	positive regulation of cell-cell adhesion	0.11396724	0.592729349
GO:0051170	nuclear import	0.11409234	0.592813688
ENSG00000166908	PIP4K2C subnetwork	0.11406304	0.592848992
ENSG00000066117	SMARCD1 subnetwork	0.11395475	0.592916984
GO:0043574	peroxisomal transport	0.11390847	0.593121189
GO:0016311	dephosphorylation	0.11395129	0.593142857
ENSG00000137547	MRPL15 subnetwork	0.11389106	0.593252002
ENSG00000109618	SEPSECS subnetwork	0.11384281	0.593399466
GO:0044450	microtubule organizing center part	0.11387377	0.593401983
MP:0004510	myositis	0.11425472	0.593405549
GO:0006606	protein import into nucleus	0.1143776	0.594034954
GO:0005635	nuclear envelope	0.1145731	0.594552012
ENSG00000141141	DDX52 subnetwork	0.114532	0.594587923
ENSG00000148082	SHC3 subnetwork	0.11468322	0.595047438
GO:0071214	cellular response to abiotic stimulus	0.11505427	0.595138101
MP:0008008	early cellular replicative senescence	0.11473495	0.595201062
ENSG00000108774	RAB5C subnetwork	0.11482399	0.595278726
ENSG00000070759	TESK2 subnetwork	0.11505134	0.595325511
GO:0048145	regulation of fibroblast proliferation	0.11487849	0.595413192
MP:0003427	parakeratosis	0.11494175	0.595509663
ENSG00000044574	HSPA5 subnetwork	0.11505028	0.595550928
ENSG00000175054	ATR subnetwork	0.11503855	0.595681818
GO:0050715	positive regulation of cytokine secretion	0.11528407	0.595935728
GO:0007129	synapsis	0.11526053	0.596028744
ENSG00000163346	PBXIP1 subnetwork	0.11566475	0.597336607
ENSG00000117450	PRDX1 subnetwork	0.11563215	0.597411187

GO:0031641	regulation of myelination	0.11579043	0.597565119
GO:0035850	epithelial cell differentiation involved in kidney development	0.11578383	0.597753021
MP:0003135	increased erythroid progenitor cell number	0.11592281	0.598226415
MP:0006400	decreased molar number	0.11613324	0.598868778
ENSG00000134588	USP26 subnetwork	0.11611871	0.599000377
ENSG00000152422	XRCC4 subnetwork	0.11620977	0.599076517
ENSG00000165392	WRN subnetwork	0.11630383	0.599359457
ENSG00000067048	DDX3Y subnetwork	0.1163997	0.599435241
GO:0015278	calcium-release channel activity	0.11637609	0.599491525
ENSG00000104852	SNRNP70 subnetwork	0.11657979	0.600451637
MP:0008872	abnormal physiological response to xenobiotic	0.11674782	0.601071832
MP:0006094	increased fat cell size	0.11681665	0.60112782
ENSG00000092203	TOX4 subnetwork	0.11670656	0.601128668
REACTOME_MICRORNA_MIRN	REACTOME_MICRORNA_MIRNA_BIOGENESIS	0.11694122	0.601145325
GO:0003684	damaged DNA binding	0.11685899	0.601164976
GO:0042308	negative regulation of protein import into nucleus	0.11700808	0.601201201
REACTOME_REGULATORY_RNA	REACTOME_REGULATORY_RNA_PATHWAYS	0.11694122	0.60137115
ENSG00000132002	DNAJB1 subnetwork	0.11728916	0.602532833
ENSG00000112658	SRF subnetwork	0.1173705	0.602831958
ENSG00000064703	DDX20 subnetwork	0.1175751	0.603259648
MP:0000440	domed cranium	0.11762947	0.60340824
MP:0004984	increased osteoclast cell number	0.11757155	0.603429535
GO:0032469	endoplasmic reticulum calcium ion homeostasis	0.11756692	0.603637045
ENSG00000114127	XRN1 subnetwork	0.11783622	0.604361662
ENSG00000106211	HSPB1 subnetwork	0.11792099	0.604545455
REACTOME_ACTIVATION_OF_RAC	REACTOME_ACTIVATION_OF_RAC	0.11789545	0.604603293
ENSG00000110880	CORO1C subnetwork	0.11804254	0.605011219
GO:0003682	chromatin binding	0.11812176	0.605102804
ENSG00000110958	PTGES3 subnetwork	0.11818322	0.60519432
MP:0001209	spontaneous skin ulceration	0.1182685	0.605397833
ENSG00000134398	ERN2 subnetwork	0.1184973	0.605767077
GO:0042116	macrophage activation	0.11848331	0.605993279
ENSG00000173020	ADRBK1 subnetwork	0.11867207	0.606133482
MP:0001199	thin skin	0.11866388	0.606266319
ENSG00000166913	YWHAB subnetwork	0.11863543	0.606287313
MP:0003091	abnormal cell migration	0.11889874	0.607283905
ENSG00000186395	KRT10 subnetwork	0.11895719	0.607411546
ENSG00000120533	ENY2 subnetwork	0.11889146	0.607472978
GO:0045814	negative regulation of gene expression, epigenetic	0.11902967	0.607517678
GO:0008536	Ran GTPase binding	0.11902266	0.607706627
GO:0032147	activation of protein kinase activity	0.11921237	0.607971014
ENSG00000140382	HMG20A subnetwork	0.11917511	0.607973978
GO:0042327	positive regulation of phosphorylation	0.11911152	0.608035714
ENSG00000107262	BAG1 subnetwork	0.11916608	0.608144292
KEGG_RIG_I_LIKE_RECEPTOR_SIGNALING_PATHWAY	KEGG_RIG_I_LIKE_RECEPTOR_SIGNALING_PATHWAY	0.11938657	0.608543834
ENSG00000101333	PLCB4 subnetwork	0.11945052	0.608559228
GO:0000956	nuclear-transcribed mRNA catabolic process	0.11971626	0.608654559
ENSG00000101255	TRIB3 subnetwork	0.11977895	0.608725454
ENSG00000135968	GCC2 subnetwork	0.11968448	0.608769003
GO:0008171	O-methyltransferase activity	0.11957765	0.608908686
MP:0005153	abnormal B cell proliferation	0.11966317	0.608920623
KEGG_TYROSINE_METABOLISM	KEGG_TYROSINE_METABOLISM	0.11986206	0.608962963
KEGG_PATHWAYS_IN_CANCER	KEGG_PATHWAYS_IN_CANCER	0.1196485	0.609053803

ENSG00000121653	MAPK8IP1 subnetwork	0.1199907	0.609311366
ENSG00000074181	NOTCH3 subnetwork	0.12032457	0.609608278
GO:0001510	RNA methylation	0.12014604	0.609715026
REACTOME_MTORC1:MEDIATED_SIGNALLING	REACTOME_MTORC1:MEDIATED_SIGNALLING	0.12031177	0.609778189
MP:0001939	secondary sex reversal	0.12022457	0.609859415
REACTOME_ACTIVATION_OF_THE_AP1_FAMILY_OF_TRANSCRIPT_FACTORS	REACTOME_ACTIVATION_OF_THE_AP1_FAMILY_OF_TRANSCRIPT_FACTORS	0.12030955	0.610003698
MP:0002429	abnormal blood cell morphology/development	0.12051497	0.610491319
ENSG00000130726	TRIM28 subnetwork	0.12060451	0.610801329
ENSG00000101266	CSNK2A1 subnetwork	0.12067605	0.611184939
ENSG00000042088	TDP1 subnetwork	0.12079213	0.611398008
GO:0042362	fat-soluble vitamin biosynthetic process	0.12075488	0.611402214
MP:0005152	pancytopenia	0.12083414	0.611412242
GO:0005813	centrosome	0.1211206	0.612265193
ENSG00000157456	CCNB2 subnetwork	0.12101197	0.612274235
ENSG00000130939	UBE4B subnetwork	0.12110638	0.612453943
MP:0001239	abnormal epidermis stratum granulosum morphology	0.12126548	0.612849779
ENSG00000133997	MED6 subnetwork	0.12166842	0.613988971
GO:0030225	macrophage differentiation	0.12164614	0.614122839
MP:0005419	hyposalbuminemia	0.12160647	0.614183223
GO:0033157	regulation of intracellular protein transport	0.1215747	0.614262054
ENSG00000177302	TOP3A subnetwork	0.12181537	0.6146086
ENSG00000085999	RAD54L subnetwork	0.12191669	0.614823659
ENSG00000151498	ACAD8 subnetwork	0.12239129	0.616263293
ENSG00000089289	IGBP1 subnetwork	0.12236567	0.616342627
ENSG00000140612	SEC11A subnetwork	0.12225657	0.616415718
ENSG00000160282	FTCD subnetwork	0.12230918	0.616519824
ENSG00000142539	SPIB subnetwork	0.12235699	0.616568807
GO:0005057	receptor signaling protein activity	0.12257104	0.617302053
ENSG00000111300	NAA25 subnetwork	0.12265849	0.617643826
MP:0001943	abnormal respiration	0.12279482	0.618131868
GO:0045087	innate immune response	0.12291449	0.618637862
ENSG00000142611	PRDM16 subnetwork	0.12317475	0.619374314
ENSG00000115541	HSPE1 subnetwork	0.12324549	0.619495245
MP:0004509	abnormal pelvic girdle bone morphology	0.12316038	0.619582723
ENSG00000153391	INO80C subnetwork	0.12337988	0.619780622
ENSG00000134440	NARS subnetwork	0.1237723	0.621600877
GO:0050434	positive regulation of viral transcription	0.12392317	0.622122762
ENSG00000198211	TUBB3 subnetwork	0.12405215	0.622571122
ENSG00000102030	NAA10 subnetwork	0.12430623	0.623448905
ENSG00000113048	MRPS27 subnetwork	0.12428884	0.623658269
ENSG00000170315	UBB subnetwork	0.12450356	0.624352426
GO:0045620	negative regulation of lymphocyte differentiation	0.12462021	0.624690007
REACTOME_PRESYNAPTIC_NICOTINIC_ACETYLCHOLINE_RECEPTOR_BINDING	REACTOME_PRESYNAPTIC_NICOTINIC_ACETYLCHOLINE_RECEPTOR_BINDING	0.12469935	0.624936201
ENSG00000116741	RGS2 subnetwork	0.12485297	0.625437318
ENSG00000147443	DOK2 subnetwork	0.1249232	0.625555556
MP:0002773	decreased circulating luteinizing hormone level	0.12503638	0.626019665
ENSG00000163939	PBRM1 subnetwork	0.12528749	0.626454545
ENSG00000119953	SMNDC1 subnetwork	0.12517861	0.626556243
GO:0018105	peptidyl-serine phosphorylation	0.1252704	0.626573299
ENSG00000073282	TP63 subnetwork	0.12524125	0.62669214
GO:0043409	negative regulation of MAPK cascade	0.12538464	0.626753908
ENSG00000120333	MRPS14 subnetwork	0.12554691	0.626870007
GO:0032386	regulation of intracellular transport	0.12545781	0.626944041

ENSG00000075089	ACTR6 subnetwork	0.12552109	0.626970578
MP:0008014	increased lung tumor incidence	0.12585064	0.628239564
ENSG00000178105	DDX10 subnetwork	0.12598893	0.62854552
ENSG00000081189	MEF2C subnetwork	0.12595485	0.628664731
ENSG00000086189	DIMT1 subnetwork	0.12621698	0.629622915
GO:0022618	ribonucleoprotein complex assembly	0.12638957	0.630300834
GO:0033017	sarcoplasmic reticulum membrane	0.12654153	0.630887681
MP:0010724	thick interventricular septum	0.12716328	0.632935647
MP:0004207	squamous cell carcinoma	0.12714029	0.633056058
GO:0010743	regulation of macrophage derived foam cell differentiation	0.12697267	0.633085838
MP:0004810	decreased hematopoietic stem cell number	0.12700834	0.633091962
MP:0005601	increased angiogenesis	0.12708972	0.633279045
GO:0031329	regulation of cellular catabolic process	0.12713803	0.633285094
GO:0035303	regulation of dephosphorylation	0.1273053	0.633447777
GO:0006281	DNA repair	0.12738001	0.633760838
GO:0072202	cell differentiation involved in metanephros development	0.12751091	0.634163958
ENSG00000111145	ELK3 subnetwork	0.12837682	0.634949713
GO:0070161	anchoring junction	0.12835853	0.635070068
REACTOME_PKB:MEDIATED_E	REACTOME_PKB:MEDIATED_EVENTS	0.12844227	0.635098743
ENSG00000114670	NEK11 subnetwork	0.12790053	0.635106383
GO:0018205	peptidyl-lysine modification	0.12795587	0.635129776
MP:0009395	increased nucleated erythrocyte cell number	0.12805596	0.635176513
MP:0011320	abnormal glomerular capillary morphology	0.12835327	0.635280374
GO:0045822	negative regulation of heart contraction	0.12803724	0.635333333
MP:0006138	congestive heart failure	0.12789622	0.635335498
ENSG00000140400	MAN2C1 subnetwork	0.12781125	0.635469314
REACTOME_CAM_PATHWAY	REACTOME_CAM_PATHWAY	0.12834564	0.635490831
MP:0005617	increased susceptibility to type IV hypersensitivity reaction	0.12788086	0.635510646
ENSG00000186193	C9orf140 subnetwork	0.12817901	0.635523947
ENSG00000156374	PCGF6 subnetwork	0.12824235	0.63561915
ENSG00000215328	HSPA1A subnetwork	0.12830938	0.635660309
ENSG00000205918	ENSG00000205918 subnetwork	0.12861643	0.635696339
REACTOME_CALMODULIN_IND	REACTOME_CALMODULIN_INDUCED_EVENTS	0.12834564	0.635719424
MP:0000613	abnormal salivary gland morphology	0.12885748	0.636921421
ENSG00000015285	WAS subnetwork	0.12892885	0.637087518
ENSG00000006715	VPS41 subnetwork	0.12914143	0.637123926
GO:0033549	MAP kinase phosphatase activity	0.12899571	0.637199713
GO:0032543	mitochondrial translation	0.12913931	0.637334289
GO:0042605	peptide antigen binding	0.12909895	0.637365591
MP:0002027	lung adenocarcinoma	0.12932648	0.637898317
GO:0048771	tissue remodeling	0.12948911	0.638018598
ENSG00000015475	BID subnetwork	0.12962993	0.638170122
ENSG00000156735	BAG4 subnetwork	0.12958801	0.638237397
GO:0045937	positive regulation of phosphate metabolic process	0.12948863	0.638246869
ENSG00000082175	PGR subnetwork	0.12973634	0.638352983
GO:0010562	positive regulation of phosphorus metabolic process	0.12948863	0.638475304
ENSG00000138663	COPS4 subnetwork	0.12996207	0.638865096
MP:0004616	lumbar vertebral transformation	0.13000178	0.638904745
GO:0003730	mRNA 3'-UTR binding	0.12995148	0.639039629
ENSG00000115020	PIKFYVE subnetwork	0.12994143	0.639196429
ENSG00000124299	PEPD subnetwork	0.13022985	0.639621969
GO:0007127	meiosis I	0.13041469	0.640374332
ENSG00000108424	KPNB1 subnetwork	0.13046783	0.640555952

GO:0042611	MHC protein complex	0.13060563	0.64086213
ENSG00000125447	GGA3 subnetwork	0.13067712	0.641150285
MP:0001127	small ovary	0.13101738	0.642239231
ENSG00000007392	LUC7L subnetwork	0.13113056	0.642298115
ENSG00000136111	TBC1D4 subnetwork	0.13112082	0.642455516
ENSG00000184009	ACTG1 subnetwork	0.13132433	0.643154339
ENSG00000154582	TCEB1 subnetwork	0.13143809	0.643319119
MP:0000280	thin ventricular wall	0.13141723	0.643476715
GO:0043022	ribosome binding	0.13158307	0.643696733
ENSG00000153561	RMND5A subnetwork	0.13155686	0.643730018
ENSG00000177426	TGIF1 subnetwork	0.13177234	0.644249201
ENSG00000122025	FLT3 subnetwork	0.13186356	0.644446416
MP:0000897	abnormal midbrain morphology	0.1319942	0.645051437
ENSG00000108946	PRKAR1A subnetwork	0.13204357	0.645106383
ENSG00000204580	DDR1 subnetwork	0.13225673	0.645414306
MP:0008071	absent B cells	0.13214519	0.645462602
ENSG00000122565	CBX3 subnetwork	0.13249477	0.6456345
ENSG00000137332	DDR1 subnetwork	0.13225673	0.645642933
GO:0035872	nucleotide-binding domain, leucine rich repeat containing r	0.13249008	0.64584512
ENSG00000140379	BCL2A1 subnetwork	0.13236315	0.645858407
ENSG00000215522	DDR1 subnetwork	0.13225673	0.645871722
GO:0002753	cytoplasmic pattern recognition receptor signaling pathway	0.13249008	0.646073576
GO:0070423	nucleotide-binding oligomerization domain containing signi	0.13249008	0.646302194
ENSG00000136738	STAM subnetwork	0.13295306	0.64714084
ENSG00000173876	TUBB8 subnetwork	0.13291686	0.647175141
GO:0030742	GTP-dependent protein binding	0.13289273	0.647262451
ENSG00000160293	VAV2 subnetwork	0.13286362	0.647420495
GO:0046823	negative regulation of nucleocytoplasmic transport	0.13308764	0.647653493
ENSG00000165140	FBP1 subnetwork	0.13312429	0.647689594
ENSG00000141456	ENSG00000141456 subnetwork	0.13331672	0.648378569
MP:0000291	enlarged pericardium	0.13330846	0.648554302
ENSG00000198911	SREBF2 subnetwork	0.13364787	0.648944777
KEGG_LYSINE_DEGRADATION	KEGG_LYSINE_DEGRADATION	0.13349011	0.648978514
ENSG00000162928	PEX13 subnetwork	0.13355384	0.648979233
MP:0003402	decreased liver weight	0.13362243	0.649067558
ENSG00000152484	USP12 subnetwork	0.13347033	0.64910148
GO:0030155	regulation of cell adhesion	0.13353348	0.649119718
MP:0000416	sparse hair	0.1339024	0.649560787
GO:0005932	microtubule basal body	0.13380034	0.649630802
ENSG00000105202	FBL subnetwork	0.13388496	0.649753954
KEGG_MTOR_SIGNALING_PATHWAY	KEGG_MTOR_SIGNALING_PATHWAY	0.13402842	0.649929751
ENSG00000138757	G3BP2 subnetwork	0.13409513	0.650140449
ENSG00000172780	RAB43 subnetwork	0.13431031	0.65022791
ENSG00000025434	NR1H3 subnetwork	0.13427232	0.650245528
ENSG00000187790	FANCM subnetwork	0.13420244	0.65033345
ENSG00000117000	RLF subnetwork	0.13426706	0.650438596
ENSG00000143226	FCGR2A subnetwork	0.13440464	0.650718542
GO:0016307	phosphatidylinositol phosphate kinase activity	0.13447633	0.650823406
ENSG00000165782	TMEM55B subnetwork	0.13463193	0.651471103
ENSG00000165699	TSC1 subnetwork	0.13480255	0.652188375
ENSG00000002016	RAD52 subnetwork	0.1349593	0.652747637
ENSG00000196924	FLNA subnetwork	0.13502617	0.653026592
MP:0001711	abnormal placenta morphology	0.13511035	0.653515215

GO:0050775	positive regulation of dendrite morphogenesis	0.135297	0.654353147
ENSG00000023734	STRAP subnetwork	0.1356963	0.654532775
ENSG00000173175	ADCY5 subnetwork	0.1356942	0.654726195
MP:0002724	enhanced wound healing	0.13562468	0.65486911
ENSG00000145192	AHSG subnetwork	0.13567701	0.654902303
ENSG00000105610	KLF1 subnetwork	0.13558052	0.654923184
ENSG00000128340	RAC2 subnetwork	0.13583753	0.65494946
GO:0043202	lysosomal lumen	0.13590367	0.654982578
ENSG00000130520	LSM4 subnetwork	0.13557447	0.655134474
MP:0004029	spontaneous chromosome breakage	0.13548649	0.65515554
ENSG00000184575	XPOT subnetwork	0.13555446	0.655293501
ENSG00000120688	WBP4 subnetwork	0.13610812	0.65585162
ENSG00000110700	RPS13 subnetwork	0.13634961	0.656963788
REACTOME_REGULATION_OF_REACTOME_REGULATION_OF_MRNA_STABILITY_BY_PROT		0.13642989	0.657048381
ENSG00000152944	MED21 subnetwork	0.13649815	0.6572373
ENSG00000175792	RUVBL1 subnetwork	0.13685583	0.658339124
GO:0009615	response to virus	0.13684008	0.658463677
MP:0010373	myeloid hyperplasia	0.13682933	0.658605702
ENSG00000187840	EIF4EBP1 subnetwork	0.13678807	0.658678261
MP:0005416	abnormal circulating protein level	0.13718213	0.659621396
ENSG00000099783	HNRNPM subnetwork	0.13758474	0.661107254
ENSG00000135316	SYNCRIP subnetwork	0.13867634	0.661143645
GO:0000303	response to superoxide	0.13843958	0.66115902
ENSG00000105173	CCNE1 subnetwork	0.13752579	0.661163194
ENSG00000111596	CNOT2 subnetwork	0.13866979	0.661354238
GO:0000305	response to oxygen radical	0.13843958	0.661387164
ENSG00000124145	SDC4 subnetwork	0.13841349	0.66149465
GO:0045597	positive regulation of cell differentiation	0.13839118	0.661515884
GO:0032483	regulation of Rab protein signal transduction	0.13830026	0.661523842
ENSG00000157326	DHRS4 subnetwork	0.13866114	0.661547742
ENSG00000177600	RPLP2 subnetwork	0.13837099	0.661588946
GO:0016032	viral reproduction	0.13864025	0.661724138
GO:0032313	regulation of Rab GTPase activity	0.13830026	0.661752506
GO:0010824	regulation of centrosome duplication	0.13791984	0.661810614
GO:0044130	negative regulation of growth of symbiont in host	0.13829157	0.661894882
ENSG00000125733	TRIP10 subnetwork	0.13787694	0.661901457
ENSG00000177485	ZBTB33 subnetwork	0.13802194	0.662118585
GO:0044146	negative regulation of growth of symbiont involved in inter	0.13829157	0.662123833
MP:0005065	abnormal neutrophil morphology	0.13894133	0.662276171
GO:0044117	growth of symbiont in host	0.13829157	0.662352941
GO:0044116	growth of symbiont involved in interaction with host	0.13829157	0.662582208
ENSG00000197635	DPP4 subnetwork	0.13912309	0.662710698
GO:0044144	modulation of growth of symbiont involved in interaction w	0.13829157	0.662811634
GO:0002221	pattern recognition receptor signaling pathway	0.13923141	0.66287384
ENSG00000181163	NPM1 subnetwork	0.1391223	0.662921542
ENSG00000185989	RASA3 subnetwork	0.13907866	0.662943201
GO:0044110	growth involved in symbiotic interaction	0.13829157	0.663041219
MP:0008995	early reproductive senescence	0.13922842	0.663084594
REACTOME_MTOR_SIGNALLIN	REACTOME_MTOR_SIGNALLING	0.13823745	0.663206239
GO:0044126	regulation of growth of symbiont in host	0.13829157	0.663270963
MP:0002774	small prostate gland	0.13948705	0.66356456
ENSG00000204120	GIGYF2 subnetwork	0.13941448	0.66362543
ENSG00000132471	WBP2 subnetwork	0.13947525	0.663758159

ENSG00000113013	HSPA9 subnetwork	0.13961494	0.66412633
ENSG00000186153	WVOX subnetwork	0.1398555	0.664449777
GO:0048144	fibroblast proliferation	0.13985419	0.664660494
ENSG00000162869	PPP1R21 subnetwork	0.1398435	0.664871355
ENSG00000121274	PAPD5 subnetwork	0.14002049	0.665061686
MP:0000822	abnormal brain ventricle morphology	0.1398318	0.66509952
GO:0032352	positive regulation of hormone metabolic process	0.14097003	0.666201022
ENSG00000121671	CRY2 subnetwork	0.1409405	0.666257669
ENSG00000112357	PEX7 subnetwork	0.14092413	0.666399591
ENSG00000139722	VPS37B subnetwork	0.14111263	0.66649081
ENSG00000137259	HIST1H2AB subnetwork	0.140901	0.666524557
REACTOME_INTRINSIC_PATHWAY	REACTOME_INTRINSIC_PATHWAY_FOR_APOPTOSIS	0.14107462	0.666530473
ENSG00000158186	MRAS subnetwork	0.14105567	0.666723433
GO:0051897	positive regulation of protein kinase B signaling cascade	0.14035407	0.666729452
ENSG00000168274	HIST1H2AE subnetwork	0.140901	0.666751962
GO:0046627	negative regulation of insulin receptor signaling pathway	0.1403177	0.666820829
GO:0030852	regulation of granulocyte differentiation	0.14123893	0.666859476
ENSG00000101331	C20orf160 subnetwork	0.140859	0.666877133
GO:0032103	positive regulation of response to external stimulus	0.14049167	0.66692334
ENSG00000185214	ENSG00000185214 subnetwork	0.14082196	0.666951178
ENSG00000183207	RUVBL2 subnetwork	0.14048023	0.667117426
ENSG00000165416	SUGT1 subnetwork	0.14081103	0.667144809
ENSG00000132109	TRIM21 subnetwork	0.14065042	0.667162393
MP:0005440	increased glycogen level	0.14062872	0.667270862
GO:0031098	stress-activated protein kinase signaling cascade	0.14081065	0.667372737
GO:0045787	positive regulation of cell cycle	0.14146846	0.667392044
MP:0006011	abnormal endolymphatic duct morphology	0.14059748	0.667413616
GO:0046626	regulation of insulin receptor signaling pathway	0.14142821	0.667465986
GO:0042645	mitochondrial nucleoid	0.14079242	0.667515379
ENSG00000115325	DOK1 subnetwork	0.14214948	0.668214165
GO:0030041	actin filament polymerization	0.14211867	0.668237288
ENSG00000162909	CAPN2 subnetwork	0.14185087	0.668416582
REACTOME_DARPP:32_EVENT	REACTOME_DARPP:32_EVENTS	0.14211545	0.668463886
GO:0070192	chromosome organization involved in meiosis	0.14226873	0.668495935
ENSG00000115548	KDM3A subnetwork	0.1419245	0.668529212
MP:0002421	abnormal cell-mediated immunity	0.14208861	0.668571913
ENSG00000073711	PPP2R3A subnetwork	0.14184903	0.66864378
ENSG00000086758	HUWE1 subnetwork	0.1424016	0.668703453
ENSG00000167641	PPP1R14A subnetwork	0.14206441	0.668713946
MP:0010792	abnormal stomach mucosa morphology	0.14204296	0.668771215
ENSG00000137831	UACA subnetwork	0.14236044	0.668794446
REACTOME_PURINE_RIBONUC	REACTOME_PURINE_RIBONUCLEOSIDE_MONOPHOSPHATE	0.14202282	0.668811545
REACTOME_VPU_MEDIATED_	REACTOME_VPU_MEDIATED_DEGRADATION_OF_CD4	0.14296983	0.671404399
GO:0035253	ciliary rootlet	0.14303297	0.671414073
ENSG00000119698	PPP4R4 subnetwork	0.14308683	0.671508285
ENSG00000135750	KCNK1 subnetwork	0.14313817	0.671585531
MP:0001422	abnormal drinking behavior	0.14319488	0.671662724
ENSG00000131652	THOC6 subnetwork	0.14344766	0.672089099
MP:0009719	reduced cerebellar foliation	0.14333794	0.672104019
MP:0002118	abnormal lipid homeostasis	0.14332934	0.672179054
ENSG00000138814	PPP3CA subnetwork	0.14343503	0.672282242
MP:0003909	increased eating behavior	0.14357786	0.672284076
MP:0008410	increased cellular sensitivity to ultraviolet irradiation	0.14364821	0.672445194

MP:0002643	poikilocytosis	0.14379774	0.672960216
ENSG00000124207	CSE1L subnetwork	0.14407582	0.673913043
ENSG00000114520	SNX4 subnetwork	0.14413098	0.674039757
ENSG00000112578	BYSL subnetwork	0.14423211	0.674057239
MP:0000914	exencephaly	0.14427133	0.674065971
MP:0002074	abnormal hair texture	0.14421791	0.674233749
ENSG00000087111	PIGS subnetwork	0.14440355	0.674327052
ENSG00000029363	BCLAF1 subnetwork	0.14445919	0.674335688
MP:0000187	abnormal triglyceride level	0.14463486	0.675117687
MP:0002229	neurodegeneration	0.14482587	0.676
ENSG00000076555	ACACB subnetwork	0.14522262	0.677527712
GO:0005844	polysome	0.14519485	0.677570565
MP:0002051	skin papilloma	0.14545992	0.678003356
GO:0060056	mammary gland involution	0.14551043	0.678010735
ENSG00000153487	ING1 subnetwork	0.14545972	0.67823095
GO:0000030	mannosyltransferase activity	0.14544934	0.678408328
ENSG00000095585	BLNK subnetwork	0.14580134	0.678609715
MP:0001931	abnormal oogenesis	0.1457758	0.678803619
ENSG00000020922	MRE11A subnetwork	0.14575305	0.678913845
MP:0005408	hypopigmentation	0.1457343	0.679057679
ENSG00000116604	MEF2D subnetwork	0.14609155	0.679140181
REACTOME_METABOLISM_OF_	REACTOME_METABOLISM_OF_RNA	0.14601766	0.679276866
MP:0001927	abnormal estrous cycle	0.14607099	0.679283802
ENSG00000160049	DFFA subnetwork	0.14597769	0.679370395
GO:0033151	V(D)J recombination	0.14634905	0.679806085
GO:0002467	germinal center formation	0.14630351	0.679866221
ENSG00000198836	OPA1 subnetwork	0.14653316	0.680464572
ENSG00000173120	KDM2A subnetwork	0.14673382	0.680757677
REACTOME_RIG:IMDA5_MEDIATED_	REACTOME_RIG:IMDA5_MEDIATED_INDUCED_INDUCTION_OF_IFN:A	0.14667456	0.680845023
GO:0006111	regulation of gluconeogenesis	0.14665387	0.680922152
ENSG00000166848	TERF2IP subnetwork	0.14673064	0.68096828
ENSG00000008130	NADK subnetwork	0.146871	0.681154103
MP:0008208	decreased pro-B cell number	0.14683439	0.681197865
MP:0005220	abnormal exocrine pancreas morphology	0.14706622	0.682110704
ENSG00000198802	ENSG00000198802 subnetwork	0.14710908	0.682116667
ENSG00000110680	CALCA subnetwork	0.14742812	0.683738754
ENSG00000125868	DSTN subnetwork	0.14764313	0.684576949
MP:0003983	decreased cholesterol level	0.14801543	0.685412508
GO:0002218	activation of innate immune response	0.14796452	0.685457571
MP:0000662	abnormal branching of the mammary ductal tree	0.14795976	0.685652463
ENSG00000141522	ARHGDI1 subnetwork	0.14793882	0.685730936
ENSG00000136937	NCBP1 subnetwork	0.14833794	0.685996678
ENSG00000068976	PYGM subnetwork	0.14843528	0.686167386
ENSG00000125912	NCLN subnetwork	0.14832479	0.686191426
ENSG00000134318	ROCK2 subnetwork	0.1482436	0.686282009
MP:0002654	spongiform encephalopathy	0.14831245	0.686369681
ENSG00000170860	LSM3 subnetwork	0.1485751	0.686487384
MP:0002962	increased urine protein level	0.14870902	0.6867076
GO:0004623	phospholipase A2 activity	0.1487922	0.686828135
MP:0009831	abnormal sperm midpiece morphology	0.14904436	0.687748674
ENSG00000126458	RRAS subnetwork	0.1490104	0.687777778
ENSG00000134215	VAV3 subnetwork	0.14917119	0.688133908
ENSG00000164078	MST1R subnetwork	0.14933453	0.688783963

ENSG00000172071	EIF2AK3 subnetwork	0.14939829	0.688837363
MP:0001891	hydrocephaly	0.14952905	0.689139073
ENSG00000148218	ALAD subnetwork	0.1497591	0.690052963
GO:0001916	positive regulation of T cell mediated cytotoxicity	0.14984243	0.690205162
MP:0000559	abnormal femur morphology	0.15016594	0.691548131
ENSG00000112651	MRPL2 subnetwork	0.1503405	0.691639128
ENSG00000170027	YWHAG subnetwork	0.15042835	0.691658408
GO:0042803	protein homodimerization activity	0.15027256	0.691765873
ENSG00000163960	UBXN7 subnetwork	0.15032479	0.691768595
ENSG00000148672	GLUD1 subnetwork	0.15072739	0.692949141
GO:0031490	chromatin DNA binding	0.1512755	0.69539452
ENSG00000128016	ZFP36 subnetwork	0.15151878	0.696205873
ENSG00000088826	SMOX subnetwork	0.15147728	0.69630363
KEGG_CIRCADIAN_RHYTHM_MAMMAL	KEGG_CIRCADIAN_RHYTHM_MAMMAL	0.15161628	0.69633905
ENSG00000170889	RPS9 subnetwork	0.15189864	0.697840422
ENSG00000134453	RBM17 subnetwork	0.15197621	0.698071852
ENSG00000153233	PTPRR subnetwork	0.15207265	0.698385502
ENSG00000127445	PIN1 subnetwork	0.15212134	0.698402503
MP:0002896	abnormal bone mineralization	0.1522577	0.698929865
ENSG00000185619	PCGF3 subnetwork	0.15243267	0.699654378
ENSG00000100726	TELO2 subnetwork	0.1527925	0.701250411
KEGG_GLYCEROPHOSPHOLIPID_METABOLISM	KEGG_GLYCEROPHOSPHOLIPID_METABOLISM	0.1528672	0.701381579
ENSG00000148053	NTRK2 subnetwork	0.15360702	0.704585799
GO:0045197	establishment or maintenance of epithelial cell apical/basal	0.15366971	0.704650016
KEGG_TGF_BETA_SIGNALING_PATHWAY	KEGG_TGF_BETA_SIGNALING_PATHWAY	0.15358302	0.704669517
GO:0008633	activation of pro-apoptotic gene products	0.15411883	0.706650246
MP:0000642	enlarged adrenal glands	0.15409176	0.706652431
GO:0048185	activin binding	0.15433126	0.707518056
MP:0002018	malignant tumors	0.15442106	0.707677165
ENSG00000198324	FAM109A subnetwork	0.15440446	0.707712504
GO:0051056	regulation of small GTPase mediated signal transduction	0.15449691	0.707756642
ENSG00000101204	CHRNA4 subnetwork	0.15459652	0.707983607
ENSG00000073578	SDHA subnetwork	0.15489378	0.708346972
MP:0002467	impaired neutrophil phagocytosis	0.15516862	0.708379615
ENSG00000083520	DIS3 subnetwork	0.15487382	0.708447937
GO:0022415	viral reproductive process	0.15474343	0.708456244
ENSG00000137947	GTF2B subnetwork	0.15480806	0.708551769
ENSG00000111229	ARPC3 subnetwork	0.15516715	0.708611111
GO:0006412	translation	0.15486979	0.708647232
ENSG00000109670	FBXW7 subnetwork	0.15499045	0.708687827
ENSG00000147382	FAM58A subnetwork	0.15504024	0.708717697
ENSG00000011007	TCEB3 subnetwork	0.15515254	0.708842759
MP:0005562	decreased mean corpuscular hemoglobin	0.15510547	0.708894702
GO:0016558	protein import into peroxisome matrix	0.15536589	0.709177008
ENSG00000149269	PAK1 subnetwork	0.15549489	0.709467842
KEGG_PROTEASOME	KEGG_PROTEASOME	0.15580636	0.711031332
ENSG00000173486	FKBP2 subnetwork	0.15592187	0.711598695
ENSG00000132394	EEFSEC subnetwork	0.15600362	0.711823222
MP:0008973	decreased erythroid progenitor cell number	0.15607572	0.71183567
ENSG00000116670	MAD2L2 subnetwork	0.15619891	0.711844249
ENSG00000100567	PSMA3 subnetwork	0.15624407	0.711954397
MP:0009347	increased trabecular bone thickness	0.15617617	0.711978488
GO:0033365	protein localization to organelle	0.15644188	0.712239583

REACTOME_DOWNSTREAM_S	REACTOME_DOWNSTREAM_SIGNALING_OF_ACTIVATED_F	0.15643243	0.712455226
ENSG00000149948	HMGA2 subnetwork	0.15685991	0.713349593
MP:0006082	CNS inflammation	0.15683442	0.713467794
ENSG00000138764	CCNG2 subnetwork	0.15677696	0.713569801
GO:0043506	regulation of JUN kinase activity	0.15709437	0.71400715
ENSG00000111328	CDK2AP1 subnetwork	0.15707592	0.714141743
ENSG00000112592	TBP subnetwork	0.15720616	0.714506173
MP:0006043	decreased apoptosis	0.15737826	0.715264696
ENSG00000137807	KIF23 subnetwork	0.15756059	0.715455725
MP:0000417	short hair	0.15762949	0.71554799
ENSG00000108443	RPS6KB1 subnetwork	0.15745587	0.715551948
ENSG00000196730	DAPK1 subnetwork	0.15754948	0.715671642
GO:0051119	sugar transmembrane transporter activity	0.15751034	0.715709185
ENSG00000104695	PPP2CB subnetwork	0.15781703	0.71573234
ENSG00000176102	CSTF3 subnetwork	0.15779987	0.715883306
ENSG00000163635	ATXN7 subnetwork	0.15791428	0.715937804
GO:0008013	beta-catenin binding	0.15798765	0.716110751
GO:0002758	innate immune response-activating signal transduction	0.15809451	0.716380706
ENSG00000189079	ARID2 subnetwork	0.15817779	0.716553398
MP:0009133	decreased white fat cell size	0.15826949	0.716612747
GO:0002039	p53 binding	0.15843843	0.716989977
MP:0003103	liver degeneration	0.15843044	0.717173351
ENSG00000164609	SLU7 subnetwork	0.15920939	0.719022265
MP:0008808	decreased spleen iron level	0.15919364	0.719125242
MP:0003037	increased infarction size	0.15938492	0.719148936
ENSG00000182872	RBM10 subnetwork	0.15930978	0.719155111
GO:0042347	negative regulation of NF-kappaB import into nucleus	0.15898133	0.719198449
GO:0034968	histone lysine methylation	0.15927766	0.719209677
GO:0033674	positive regulation of kinase activity	0.15917754	0.719260575
ENSG00000213639	PPP1CB subnetwork	0.15915544	0.719460594
MP:0002647	decreased intestinal cholesterol absorption	0.15911626	0.719531502
MP:0010279	increased gastrointestinal tumor incidence	0.15956534	0.719674509
GO:0032735	positive regulation of interleukin-12 production	0.15966531	0.72003866
MP:0005341	decreased susceptibility to atherosclerosis	0.15994298	0.720575933
MP:0004964	absent inner cell mass	0.1598318	0.720724638
ENSG00000085117	CD82 subnetwork	0.15993826	0.720775668
MP:0003984	embryonic growth retardation	0.15993305	0.720975531
ENSG00000143621	ILF2 subnetwork	0.16012523	0.721028939
ENSG00000087191	PSMC5 subnetwork	0.16011533	0.721196526
GO:0007015	actin filament organization	0.1603207	0.721873995
GO:0030838	positive regulation of actin filament polymerization	0.16054195	0.722670308
GO:0010907	positive regulation of glucose metabolic process	0.16066815	0.72298426
GO:0009295	nucleoid	0.16072679	0.722992935
GO:0070555	response to interleukin-1	0.16077893	0.723065811
GO:0030856	regulation of epithelial cell differentiation	0.16085182	0.723122593
ENSG00000116030	SUMO1 subnetwork	0.16131318	0.724487179
ENSG00000104814	MAP4K1 subnetwork	0.16128896	0.724623277
GO:0005721	centromeric heterochromatin	0.16137786	0.724655559
ENSG00000185651	UBE2L3 subnetwork	0.16127101	0.724759461
GO:0043548	phosphatidylinositol 3-kinase binding	0.16146618	0.724871877
GO:0046641	positive regulation of alpha-beta T cell proliferation	0.1612497	0.724927815
ENSG00000137815	RTF1 subnetwork	0.16160672	0.72532821
ENSG00000100311	PDGFB subnetwork	0.16164391	0.725352113

ENSG00000063046	EIF4B subnetwork	0.16173826	0.725552
MP:0002264	abnormal bronchus morphology	0.16189891	0.726055662
ENSG00000061936	SFSWAP subnetwork	0.16198214	0.726063319
ENSG00000184216	IRAK1 subnetwork	0.16248816	0.728548593
ENSG00000114126	TFDP2 subnetwork	0.16260599	0.728906999
MP:0008866	chromosomal instability	0.16264909	0.728913738
GO:0051321	meiotic cell cycle	0.16284265	0.729358238
ENSG00000184985	SORCS2 subnetwork	0.16280999	0.7294794
GO:0032814	regulation of natural killer cell activation	0.16293002	0.729652091
ENSG00000015479	MATR3 subnetwork	0.16300736	0.72980217
ENSG00000142252	GEMIN7 subnetwork	0.16307259	0.729936204
MP:0006317	decreased urine sodium level	0.16337627	0.731106505
GO:0008186	RNA-dependent ATPase activity	0.16354141	0.731431304
GO:0030833	regulation of actin filament polymerization	0.16364954	0.73151689
ENSG00000124160	NCOA5 subnetwork	0.16372077	0.731570564
ENSG00000099139	PCSK5 subnetwork	0.16394724	0.732420382
MP:0004076	abnormal vitelline vascular remodeling	0.16408869	0.73272843
ENSG00000133103	COG6 subnetwork	0.16424844	0.733450032
KEGG_RIBOFLAVIN_METABOLISM	KEGG_RIBOFLAVIN_METABOLISM	0.16439776	0.733932549
MP:0011204	abnormal visceral yolk sac blood island morphology	0.16485453	0.734116154
ENSG00000116809	ZBTB17 subnetwork	0.16470045	0.734132783
ENSG00000051180	RAD51 subnetwork	0.16490258	0.734152919
GO:0004402	histone acetyltransferase activity	0.16477044	0.7341537
ENSG00000105663	ENSG00000105663 subnetwork	0.1648294	0.734190476
ENSG00000175110	MRPS22 subnetwork	0.16452099	0.734223919
GO:0000184	nuclear-transcribed mRNA catabolic process, nonsense-me	0.16460438	0.734324324
GO:0016790	thiolester hydrolase activity	0.16469404	0.734334287
ENSG00000196367	TRRAP subnetwork	0.1646616	0.734424666
GO:0030934	anchoring collagen	0.16503397	0.734617824
ENSG00000028839	TBPL1 subnetwork	0.16524439	0.735367787
GO:0008094	DNA-dependent ATPase activity	0.16537149	0.735594295
GO:0005775	vacuolar lumen	0.16550036	0.736026616
ENSG00000137337	MDC1 subnetwork	0.16619007	0.736246057
ENSG00000075673	ATP12A subnetwork	0.16623145	0.736297698
ENSG00000110799	VWF subnetwork	0.16626009	0.736317781
ENSG00000180581	ENSG00000180581 subnetwork	0.1659518	0.736452735
ENSG00000206385	ENSG00000206385 subnetwork	0.16619007	0.736478384
GO:0003724	RNA helicase activity	0.16569286	0.736601204
MP:0001218	thin epidermis	0.16617429	0.736616162
ENSG00000143742	SRP9 subnetwork	0.1659518	0.736685642
REACTOME_ACETYLCHOLINE_BINDING_AND_DOWNSTREAM_EFFECTS	REACTOME_ACETYLCHOLINE_BINDING_AND_DOWNSTREAM_EFFECTS	0.16617408	0.736848753
MP:0003447	decreased tumor growth/size	0.1659491	0.736918697
ENSG00000154556	SORBS2 subnetwork	0.16581515	0.736937935
ENSG00000112144	ICK subnetwork	0.16588256	0.737037037
GO:0060443	mammary gland morphogenesis	0.16593188	0.737041139
REACTOME_POSTSYNAPTIC_NICOTINIC_ACETYLCHOLINE_RECEPTOR_BINDING	REACTOME_POSTSYNAPTIC_NICOTINIC_ACETYLCHOLINE_RECEPTOR_BINDING	0.16617408	0.737081491
KEGG_PROSTATE_CANCER	KEGG_PROSTATE_CANCER	0.16608248	0.737120733
REACTOME_ACTIVATION_OF_NICOTINIC_ACETYLCHOLINE_RECEPTOR	REACTOME_ACTIVATION_OF_NICOTINIC_ACETYLCHOLINE_RECEPTOR	0.16617408	0.737314376
ENSG00000010671	BTK subnetwork	0.1664902	0.737362118
ENSG00000189037	DUSP21 subnetwork	0.16663263	0.73779143
MP:0002079	increased circulating insulin level	0.16679722	0.737834435
ENSG00000181222	POLR2A subnetwork	0.16678856	0.738035264
MP:0003231	abnormal placenta vasculature	0.16678647	0.73823622

KEGG_ABC_TRANSPORTERS	KEGG_ABC_TRANSPORTERS	0.16702137	0.73876652
GO:0030175	filopodium	0.1674055	0.739641622
ENSG00000017260	ATP2C1 subnetwork	0.16744272	0.739660591
ENSG00000096150	RPS18 subnetwork	0.16845397	0.739828125
MP:0000737	abnormal myotome development	0.16851839	0.739846923
ENSG00000100345	MYH9 subnetwork	0.16740526	0.739874214
KEGG_EPITHELIAL_CELL_SIGNALING	KEGG_EPITHELIAL_CELL_SIGNALING_IN_HELICOBACTER_PY	0.16773547	0.739880766
ENSG00000092201	SUPT16H subnetwork	0.16755811	0.739946591
ENSG00000175221	MED16 subnetwork	0.16821477	0.739981215
ENSG00000180573	HIST1H2AC subnetwork	0.16770736	0.739987445
ENSG00000178188	SH2B1 subnetwork	0.16737413	0.740028311
MP:0000141	abnormal vertebral body morphology	0.16825999	0.740031299
ENSG00000182498	ENSG00000182498 subnetwork	0.16845397	0.740059394
MP:0009548	abnormal platelet aggregation	0.16767654	0.740094192
MP:0002682	decreased mature ovarian follicle number	0.16799374	0.740109718
ENSG00000181090	EHMT1 subnetwork	0.16811577	0.740115915
MP:0000336	decreased mast cell number	0.16793086	0.740137974
MP:0006042	increased apoptosis	0.16762261	0.740138191
ENSG00000134243	SORT1 subnetwork	0.16819625	0.740165988
ENSG00000185658	BRWD1 subnetwork	0.16809591	0.740285177
ENSG00000206212	ENSG00000206212 subnetwork	0.16845397	0.740290807
ENSG00000111775	COX6A1 subnetwork	0.16792903	0.740370138
ENSG00000068366	ACSL4 subnetwork	0.16837371	0.740394243
ENSG00000181218	HIST3H2A subnetwork	0.1684346	0.740444166
MP:0000470	abnormal stomach morphology	0.16888428	0.741708307
MP:0003436	decreased susceptibility to induced arthritis	0.16902913	0.741794072
ENSG00000116898	MRPS15 subnetwork	0.16919199	0.741955098
GO:0003678	DNA helicase activity	0.16914282	0.74198378
REACTOME_MEIOSIS	REACTOME_MEIOSIS	0.1690289	0.742025593
ENSG00000099901	RANBP1 subnetwork	0.16898159	0.742038714
ENSG00000158560	DYNC1I1 subnetwork	0.16953464	0.743500623
ENSG00000142676	RPL11 subnetwork	0.16962117	0.743596136
ENSG00000086232	EIF2AK1 subnetwork	0.16970345	0.743707165
ENSG00000141076	CIRH1A subnetwork	0.1698589	0.743853097
ENSG00000174371	EXO1 subnetwork	0.16983097	0.743882316
ENSG00000084073	ZMPSTE24 subnetwork	0.16980879	0.743958268
ENSG00000196923	PDLIM7 subnetwork	0.17001693	0.744043546
MP:0005657	abnormal neural plate morphology	0.17000261	0.744228376
GO:0017053	transcriptional repressor complex	0.17011793	0.744231965
GO:0009607	response to biotic stimulus	0.17052334	0.745865713
MP:0003717	pallor	0.17089222	0.747327533
ENSG00000174775	HRAS subnetwork	0.17104427	0.747468944
ENSG00000132341	RAN subnetwork	0.17109516	0.747547346
REACTOME_MEIOTIC_RECOMBINATION	REACTOME_MEIOTIC_RECOMBINATION	0.17103796	0.747685617
MP:0005418	abnormal circulating hormone level	0.1712714	0.748137803
ENSG00000165630	PRPF18 subnetwork	0.17140384	0.74844865
GO:0010332	response to gamma radiation	0.17146387	0.748495658
ENSG00000063978	RNF4 subnetwork	0.17152051	0.748573643
ENSG00000112304	ACOT13 subnetwork	0.17177001	0.74916331
ENSG00000113721	PDGFRB subnetwork	0.17185665	0.749256506
MP:0005266	abnormal metabolism	0.17173699	0.749302542
ENSG00000102387	TAF7L subnetwork	0.17258607	0.749722308
MP:0002590	increased mean corpuscular volume	0.17256856	0.749861111

MP:0001698	decreased embryo size	0.17243286	0.749876429
GO:0070302	regulation of stress-activated protein kinase signaling casca	0.17280495	0.750030836
ENSG00000100365	NCF4 subnetwork	0.17255529	0.750030874
GO:0043627	response to estrogen stimulus	0.17275704	0.750046268
ENSG00000068654	POLR1A subnetwork	0.17240578	0.750046354
GO:0051707	response to other organism	0.1723698	0.750061824
ENSG00000129354	AP1M2 subnetwork	0.17252155	0.75009265
GO:0046777	protein autophosphorylation	0.17234639	0.750200989
GO:0007565	female pregnancy	0.17213769	0.750216785
GO:0005640	nuclear outer membrane	0.17220238	0.750340557
ENSG00000058272	PPP1R12A subnetwork	0.17232006	0.750355707
MP:0002095	abnormal skin pigmentation	0.17292856	0.750416153
GO:0004386	helicase activity	0.1722587	0.750510678
MP:0001715	placental labyrinth hypoplasia	0.17231417	0.750556931
GO:0001914	regulation of T cell mediated cytotoxicity	0.17327004	0.750815636
ENSG00000150455	TIRAP subnetwork	0.17325179	0.750939039
ENSG00000169439	SDC2 subnetwork	0.17321536	0.751016323
ENSG00000108654	DDX5 subnetwork	0.17312013	0.751093991
ENSG00000182541	LIMK2 subnetwork	0.17321452	0.751247689
GO:0001913	T cell mediated cytotoxicity	0.17344406	0.751307692
ENSG00000136936	XPA subnetwork	0.17351812	0.751414949
ENSG00000184825	HIST1H2AH subnetwork	0.17392243	0.75174954
ENSG00000141582	CBX4 subnetwork	0.17377871	0.751766513
MP:0009542	decreased thymocyte apoptosis	0.17404286	0.751794479
ENSG00000115718	PROC subnetwork	0.17399699	0.751795029
ENSG00000076604	TRAF4 subnetwork	0.17374883	0.751889982
ENSG00000126214	KLC1 subnetwork	0.17385735	0.751904177
ENSG00000134371	CDC73 subnetwork	0.17372593	0.751952044
ENSG00000070366	SMG6 subnetwork	0.17368656	0.75196802
ENSG00000124642	ENSG00000124642 subnetwork	0.17392243	0.75198035
ENSG00000169067	ACTBL2 subnetwork	0.17437355	0.752113323
MP:0002410	decreased susceptibility to viral infection	0.17435995	0.752328431
GO:0051347	positive regulation of transferase activity	0.17420712	0.752330573
ENSG00000108953	YWHAE subnetwork	0.17435299	0.752513025
ENSG00000106443	PHF14 subnetwork	0.17433094	0.752667075
ENSG00000119616	FCF1 subnetwork	0.17454929	0.752770974
ENSG00000160917	CPSF4 subnetwork	0.1746579	0.753168044
GO:0007131	reciprocal meiotic recombination	0.17488483	0.753455657
ENSG00000108465	CDK5RAP3 subnetwork	0.1749379	0.753469887
GO:0031401	positive regulation of protein modification process	0.17482066	0.753671971
GO:0046966	thyroid hormone receptor binding	0.17506264	0.753681638
MP:0002998	abnormal bone remodeling	0.17501913	0.753682763
GO:0035825	reciprocal DNA recombination	0.17488483	0.753686143
GO:0031498	chromatin disassembly	0.17527211	0.753707659
ENSG00000106004	HOXA5 subnetwork	0.17514576	0.753787416
GO:0006337	nucleosome disassembly	0.17527211	0.753937729
GO:0032986	protein-DNA complex disassembly	0.17527211	0.754167939
MP:0003628	abnormal leukocyte adhesion	0.17555553	0.754682733
ENSG00000122257	RBBP6 subnetwork	0.17586969	0.755348979
GO:0016363	nuclear matrix	0.17577609	0.755352242
MP:0001792	impaired wound healing	0.17584424	0.755442073
ENSG00000138468	SENP7 subnetwork	0.17623378	0.755613021
GO:0051327	M phase of meiotic cell cycle	0.1760676	0.75571124

MP:0008706	decreased interleukin-6 secretion	0.17628595	0.755732968
ENSG00000070831	CDC42 subnetwork	0.17622215	0.755751674
ENSG00000056661	PCGF2 subnetwork	0.17639252	0.755822438
ENSG00000124571	XPO5 subnetwork	0.1764419	0.755881459
GO:0030374	ligand-dependent nuclear receptor transcription coactivator	0.17620741	0.755905632
GO:0007126	meiosis	0.1760676	0.755941499
MP:0003627	abnormal leukocyte tethering or rolling	0.1761759	0.756059683
GO:0042987	amyloid precursor protein catabolic process	0.17660644	0.756136087
ENSG00000153807	ENSG00000153807 subnetwork	0.1769316	0.75624621
ENSG00000105245	NUMBL subnetwork	0.17677051	0.756282246
GO:0004003	ATP-dependent DNA helicase activity	0.17672865	0.756299332
ENSG00000168036	CTNNB1 subnetwork	0.17659871	0.756320267
MP:0002078	abnormal glucose homeostasis	0.17670428	0.756407531
ENSG00000147536	GINS4 subnetwork	0.17691188	0.756445253
ENSG00000186842	ENSG00000186842 subnetwork	0.1768764	0.756568568
GO:0031056	regulation of histone modification	0.17708612	0.756896029
GO:0070265	necrotic cell death	0.17716822	0.757090909
MP:0009429	decreased embryo weight	0.17754265	0.758694335
ENSG00000091436	ENSG00000091436 subnetwork	0.17763685	0.758843125
ENSG00000189283	FHIT subnetwork	0.17771552	0.758991826
ENSG00000198374	HIST1H2AL subnetwork	0.17845205	0.759656005
ENSG00000196747	HIST1H2AI subnetwork	0.17845205	0.7598853
ENSG00000196787	HIST1H2AG subnetwork	0.17845205	0.760114734
GO:0016338	calcium-independent cell-cell adhesion	0.17832166	0.760169235
ENSG00000100395	L3MBTL2 subnetwork	0.17827825	0.760217654
ENSG00000196866	HIST1H2AD subnetwork	0.17845205	0.760344307
ENSG00000059728	MXD1 subnetwork	0.17810379	0.760411622
MP:0002168	other aberrant phenotype	0.17827481	0.760432416
ENSG00000184348	HIST1H2AK subnetwork	0.17845205	0.760574018
ENSG00000058335	RASGRF1 subnetwork	0.17874415	0.760603318
ENSG00000007816	ENSG00000007816 subnetwork	0.17826702	0.760647308
ENSG00000124783	SSR1 subnetwork	0.17821504	0.760726172
ENSG00000149311	ATM subnetwork	0.17891878	0.760962002
ENSG00000105376	ICAM5 subnetwork	0.17921371	0.761889693
ENSG00000152147	GEMIN6 subnetwork	0.17916841	0.761923425
ENSG00000143507	DUSP10 subnetwork	0.17931189	0.762172341
ENSG00000157110	RBPM5 subnetwork	0.17937934	0.762364458
ENSG00000215305	VPS16 subnetwork	0.17995504	0.763465585
MP:0001273	decreased metastatic potential	0.17989479	0.763514732
GO:0008026	ATP-dependent helicase activity	0.17986277	0.763533835
ENSG00000110422	HIPK3 subnetwork	0.17976297	0.763557027
ENSG00000204898	ENSG00000204898 subnetwork	0.17975069	0.763741722
GO:0070035	purine NTP-dependent helicase activity	0.17986277	0.763763538
ENSG00000079385	CEACAM1 subnetwork	0.17975069	0.763971695
GO:0030684	preribosome	0.18026077	0.764663462
GO:0034504	protein localization to nucleus	0.18043953	0.76512012
ENSG00000089094	KDM2B subnetwork	0.18042532	0.765259838
ENSG00000168259	DNAJC7 subnetwork	0.1807553	0.766496548
GO:0000795	synaptonemal complex	0.18135849	0.767680551
ENSG00000165606	DRGX subnetwork	0.18116807	0.767767107
ENSG00000106070	GRB10 subnetwork	0.18135505	0.767895683
ENSG00000131437	KIF3A subnetwork	0.18151617	0.767989814
GO:0044427	chromosomal part	0.1816107	0.768059299

GO:0030593	neutrophil chemotaxis	0.18134672	0.768110945
MP:0000043	organ of Corti degeneration	0.18130291	0.768331833
ENSG00000183918	SH2D1A subnetwork	0.18134396	0.768341332
MP:0005668	decreased circulating leptin level	0.18185471	0.768662077
ENSG00000204361	FAM55B subnetwork	0.18180981	0.768712575
REACTOME_HIGLY_CALCIUM	REACTOME_HIGLY_CALCIUM_PERMEABLE_POSTSYNAPTIC	0.18192102	0.768821065
ENSG00000184900	SUMO3 subnetwork	0.181972	0.768890218
ENSG00000175582	RAB6A subnetwork	0.18240104	0.769173381
MP:0005033	abnormal trophoblast giant cells	0.18240023	0.769402985
obsolete_molecular_function	obsolete_molecular_function	0.18232368	0.769408779
MP:0011049	impaired adaptive thermogenesis	0.18221469	0.769530783
MP:0008288	abnormal adrenal cortex morphology	0.18218834	0.769626308
MP:0009541	increased thymocyte apoptosis	0.18232313	0.76963859
REACTOME_SIGNALING_BY_TGFB	REACTOME_SIGNALING_BY_TGF_BETA	0.18215416	0.769662081
ENSG00000117318	ID3 subnetwork	0.18229726	0.769808784
ENSG00000135144	DTX1 subnetwork	0.18272202	0.770346062
GO:0031301	integral to organelle membrane	0.18288984	0.77068297
ENSG00000100462	PRMT5 subnetwork	0.18320195	0.771728763
GO:0045860	positive regulation of protein kinase activity	0.18319626	0.77192904
MP:0009789	decreased susceptibility to bacterial infection induced mortality	0.18355591	0.772238762
GO:0017136	NAD-dependent histone deacetylase activity	0.18345758	0.772415847
ENSG00000135363	LMO2 subnetwork	0.1835543	0.772453842
GO:0034979	NAD-dependent protein deacetylase activity	0.18345758	0.772646007
ENSG00000035115	SH3YL1 subnetwork	0.18387372	0.773333333
KEGG_ALANINE_ASPARTATE_AND_GLUTAMATE_METABOLISM	KEGG_ALANINE_ASPARTATE_AND_GLUTAMATE_METABOLISM	0.18394178	0.773400774
REACTOME_METABOLISM_OF_MRNA	REACTOME_METABOLISM_OF_MRNA	0.18411517	0.774107674
ENSG00000087903	RFX2 subnetwork	0.18424681	0.774227111
GO:0061377	mammary gland lobule development	0.18435302	0.774242424
MP:0001148	enlarged testis	0.18424116	0.774412727
GO:0060749	mammary gland alveolus development	0.18435302	0.774472511
GO:0035770	ribonucleoprotein granule	0.1847247	0.774873925
ENSG00000149357	LAMTOR1 subnetwork	0.18481573	0.774940688
ENSG00000120008	WDR11 subnetwork	0.18488306	0.774955542
MP:0005542	corneal vascularization	0.18491698	0.774977778
GO:0019867	outer membrane	0.18486014	0.775051883
ENSG00000213585	VDAC1 subnetwork	0.18470045	0.775059347
ENSG00000188986	COBRA1 subnetwork	0.18465528	0.775155833
ENSG00000182953	ENSG00000182953 subnetwork	0.1846475	0.775341449
ENSG00000186318	BACE1 subnetwork	0.1846181	0.775393525
MP:0005461	abnormal dendritic cell morphology	0.18551074	0.776412304
GO:0009755	hormone-mediated signaling pathway	0.18529325	0.776413977
GO:0046822	regulation of nucleocytoplasmic transport	0.18523752	0.776436611
GO:0051272	positive regulation of cellular component movement	0.18550139	0.77658284
GO:0007568	aging	0.18547834	0.776694288
ENSG00000188486	H2AFX subnetwork	0.1854349	0.776761397
GO:0030134	ER to Golgi transport vesicle	0.1858175	0.777460834
ENSG00000155380	SLC16A1 subnetwork	0.18588979	0.777541371
GO:0030544	Hsp70 protein binding	0.18578658	0.777557658
ENSG00000145349	CAMK2D subnetwork	0.18612953	0.777812223
ENSG00000108395	TRIM37 subnetwork	0.18601127	0.777858198
ENSG00000182180	MRPS16 subnetwork	0.18610203	0.777982871
ENSG00000141232	TOB1 subnetwork	0.18620163	0.777995868
ENSG00000125482	TTF1 subnetwork	0.18635253	0.778503983

GO:0005158	insulin receptor binding	0.18656825	0.779129794
GO:0006953	acute-phase response	0.18663298	0.779165438
MP:0002182	abnormal astrocyte morphology	0.18688746	0.77995283
ENSG00000152270	PDE3B subnetwork	0.18697091	0.780061892
ENSG00000067596	DHX8 subnetwork	0.18728743	0.78111013
ENSG00000185499	MUC1 subnetwork	0.18725573	0.781237113
GO:0031434	mitogen-activated protein kinase kinase binding	0.18723114	0.78134944
ENSG00000164951	PDP1 subnetwork	0.18768848	0.782513983
ENSG00000078808	SDF4 subnetwork	0.1877699	0.782710418
KEGG_RNA_POLYMERASE	KEGG_RNA_POLYMERASE	0.18789186	0.782950868
MP:0011098	complete embryonic lethality during organogenesis	0.18801752	0.783264706
GO:0030145	manganese ion binding	0.18814865	0.783607762
ENSG00000140682	TGFB1I1 subnetwork	0.18842497	0.78444402
REACTOME_FORMATION_OF_TUBULIN_FOLDING_INTERMEDIATE	REACTOME_FORMATION_OF_TUBULIN_FOLDING_INTERMEDIATE	0.18841766	0.784641387
ENSG00000083544	TDRD3 subnetwork	0.18861605	0.784900118
ENSG00000104872	PIH1D1 subnetwork	0.18880885	0.785217264
GO:0031625	ubiquitin protein ligase binding	0.18896708	0.785372653
ENSG00000130758	MAP3K10 subnetwork	0.18880322	0.785418502
ENSG00000075415	SLC25A3 subnetwork	0.18895264	0.785544467
ENSG00000130479	MAP1S subnetwork	0.18936328	0.787078322
MP:0002038	carcinoma	0.18961915	0.787727273
REACTOME_TIGHT_JUNCTION_INTERACTIONS	REACTOME_TIGHT_JUNCTION_INTERACTIONS	0.18995575	0.78925535
ENSG00000160202	CRYAA subnetwork	0.19007171	0.78968347
KEGG_N_GLYCAN_BIOSYNTHESIS	KEGG_N_GLYCAN_BIOSYNTHESIS	0.19029838	0.790624084
ENSG00000124383	MPHOSPH10 subnetwork	0.19067239	0.792311072
MP:0000471	abnormal stomach epithelium morphology	0.19097935	0.792698273
MP:0004434	abnormal cochlear outer hair cell physiology	0.19121402	0.792781999
MP:0008782	increased B cell apoptosis	0.19093477	0.792783958
ENSG00000162367	TAL1 subnetwork	0.19103166	0.792875951
ENSG00000140848	CPNE2 subnetwork	0.19112083	0.792938596
ENSG00000099804	CDC34 subnetwork	0.19092486	0.79295754
ENSG00000005156	LIG3 subnetwork	0.19120433	0.792984507
GO:0071565	nBAF complex	0.19111037	0.793068149
ENSG00000025293	PHF20 subnetwork	0.1919698	0.794067055
ENSG00000204221	WDR46 subnetwork	0.19209998	0.794143357
MP:0001130	abnormal ovarian folliculogenesis	0.19189306	0.794238623
ENSG00000134250	NOTCH2 subnetwork	0.19195044	0.794240303
ENSG00000206284	WDR46 subnetwork	0.19209998	0.794374818
MP:0002968	increased circulating alkaline phosphatase level	0.1918695	0.794382842
ENSG00000131467	PSME3 subnetwork	0.19185761	0.794570928
ENSG00000146109	ABT1 subnetwork	0.19228247	0.794596563
ENSG00000162191	UBXN1 subnetwork	0.1918525	0.79480292
ENSG00000185973	TMLHE subnetwork	0.19242413	0.794874782
GO:0016835	carbon-oxygen lyase activity	0.19184875	0.795020444
ENSG00000115170	ACVR1 subnetwork	0.19180661	0.795077417
GO:0045120	pronucleus	0.1925783	0.795110594
ENSG00000138767	CNOT6L subnetwork	0.19276488	0.795129398
ENSG00000105976	MET subnetwork	0.19264581	0.795170207
GO:0045638	negative regulation of myeloid cell differentiation	0.19273852	0.795273415
ENSG00000100926	TM9SF1 subnetwork	0.1925658	0.795327511
ENSG00000148843	PDCD11 subnetwork	0.1929168	0.795537791
ENSG00000163541	SUCLG1 subnetwork	0.19321048	0.796498111
GO:0016641	oxidoreductase activity, acting on the CH-NH2 group of donor	0.19349697	0.796719884

ENSG00000102780	DGKH subnetwork	0.19346902	0.796864111
GO:0018209	peptidyl-serine modification	0.19338951	0.796949448
ENSG00000108270	AATF subnetwork	0.19345499	0.796979378
MP:0002672	abnormal branchial arch artery morphology	0.19397005	0.797334106
GO:0043491	protein kinase B signaling cascade	0.19393378	0.797434783
ENSG00000204301	NOTCH4 subnetwork	0.19417666	0.79763905
ENSG00000139117	CPNE8 subnetwork	0.19393372	0.79766599
ENSG00000070501	POLB subnetwork	0.19377992	0.797692977
MP:0002160	abnormal reproductive system morphology	0.19387927	0.797766821
ENSG00000131626	PPFIA1 subnetwork	0.19384586	0.797795184
ENSG00000069431	ABCC9 subnetwork	0.19435448	0.79806022
MP:0002190	disorganized myocardium	0.19475157	0.798150289
GO:0019218	regulation of steroid metabolic process	0.194331	0.798161019
GO:0019915	lipid storage	0.19464476	0.798192597
MP:0001147	small testis	0.19481235	0.79820861
GO:0004725	protein tyrosine phosphatase activity	0.19471467	0.798236485
GO:0090077	foam cell differentiation	0.19493512	0.79825296
GO:2000058	regulation of protein ubiquitination involved in ubiquitin-de	0.19462941	0.798409025
GO:0010742	macrophage derived foam cell differentiation	0.19493512	0.798483536
GO:0002526	acute inflammatory response	0.19506243	0.798614319
GO:0071636	positive regulation of transforming growth factor beta prod	0.1946284	0.798640046
ENSG00000119699	TGFB3 subnetwork	0.19458967	0.798726483
GO:0046395	carboxylic acid catabolic process	0.19532233	0.799120277
ENSG00000151065	DCP1B subnetwork	0.19521323	0.799134199
GO:0016054	organic acid catabolic process	0.19532233	0.799350837
ENSG00000187899	ENSG00000187899 subnetwork	0.19567458	0.800576701
ENSG00000077312	SNRPA subnetwork	0.19594794	0.801686365
ENSG00000204103	MAFB subnetwork	0.19609884	0.801988473
ENSG00000167193	CRK subnetwork	0.19643059	0.803182604
ENSG00000134014	ELP3 subnetwork	0.19659744	0.803309353
ENSG00000070770	CSNK2A2 subnetwork	0.1964136	0.803341976
ENSG00000112576	CCND3 subnetwork	0.1965345	0.803412036
GO:0004143	diacylglycerol kinase activity	0.19658924	0.803511802
GO:0050681	androgen receptor binding	0.1966932	0.803567319
GO:0022612	gland morphogenesis	0.19697316	0.80439908
GO:0031594	neuromuscular junction	0.19694937	0.804501007
MP:0005508	abnormal skeleton morphology	0.19738444	0.804520666
ENSG00000130985	UBA1 subnetwork	0.19716645	0.804683908
ENSG00000183558	HIST2H2AA3 subnetwork	0.19735443	0.804708585
ENSG00000133511	ENSG00000133511 subnetwork	0.19714013	0.804785858
ENSG00000116001	TIA1 subnetwork	0.19726693	0.804840563
ENSG00000126749	ENSG00000126749 subnetwork	0.19756281	0.804919679
ENSG00000203812	HIST2H2AA4 subnetwork	0.19735443	0.80493969
ENSG00000015153	YAF2 subnetwork	0.19754128	0.805021521
ENSG00000117335	CD46 subnetwork	0.19761833	0.80503298
MP:0001284	absent vibrissae	0.19828087	0.80530303
ENSG00000129347	KRI1 subnetwork	0.19812708	0.805350501
GO:0007205	protein kinase C-activating G-protein coupled receptor sign	0.19784944	0.805358166
REACTOME_REGULATION_OF_REACTOME_REGULATION_OF_IFNA_SIGNALING		0.19841243	0.805385714
ENSG00000113448	PDE4D subnetwork	0.19835067	0.805387254
ENSG00000167930	ITFG3 subnetwork	0.198186	0.805391876
ENSG00000144668	ITGA9 subnetwork	0.19810761	0.805466514
GO:0046638	positive regulation of alpha-beta T cell differentiation	0.19826098	0.805476122

ENSG00000101132	PFDN4 subnetwork	0.19783798	0.805574663
GO:0010874	regulation of cholesterol efflux	0.1980838	0.805611222
ENSG00000083290	ULK2 subnetwork	0.1979526	0.805643082
ENSG00000163017	ACTG2 subnetwork	0.19782418	0.80574828
ENSG00000115685	PPP1R7 subnetwork	0.1980563	0.805756014
GO:0070001	aspartic-type peptidase activity	0.19928534	0.808416548
GO:0004722	protein serine/threonine phosphatase activity	0.19918012	0.808537978
ENSG00000081248	CACNA1S subnetwork	0.19915995	0.808640388
GO:0004190	aspartic-type endopeptidase activity	0.19928534	0.80864726
ENSG00000196084	ENSG00000196084 subnetwork	0.19940059	0.80867085
ENSG00000130165	ELOF1 subnetwork	0.19926489	0.808806737
GO:0035102	PRC1 complex	0.19963622	0.80926718
MP:0000130	abnormal trabecular bone morphology	0.19972248	0.809307298
MP:0004433	abnormal cochlear inner hair cell physiology	0.20004066	0.81045882
ENSG00000100867	DHRS2 subnetwork	0.20057784	0.812692308
ENSG00000128487	SPECC1 subnetwork	0.20082666	0.813226082
ENSG00000119414	PPP6C subnetwork	0.20076078	0.813258331
GO:0016702	oxidoreductase activity, acting on single donors with incorp	0.20102138	0.813645418
ENSG00000179899	ENSG00000179899 subnetwork	0.20101378	0.813820097
GO:0009103	lipopolysaccharide biosynthetic process	0.20155975	0.814204545
ENSG00000163882	POLR2H subnetwork	0.20153747	0.814379085
GO:0051651	maintenance of location in cell	0.20151122	0.814567936
ENSG00000176095	IP6K1 subnetwork	0.20148355	0.814671595
ENSG00000141101	NOB1 subnetwork	0.20134669	0.814679943
GO:0046332	SMAD binding	0.2014754	0.814874858
ENSG00000101773	RBBP8 subnetwork	0.20176936	0.814882136
REACTOME_RNA_POLYMERAS	REACTOME_RNA_POLYMERASE_I_TRANSCRIPTION_INITIAT	0.20193998	0.815271076
ENSG00000175906	ARL4D subnetwork	0.20189118	0.815289608
ENSG00000185043	CIB1 subnetwork	0.20206212	0.815607264
ENSG00000106344	RBM28 subnetwork	0.2022149	0.815985816
GO:0005776	autophagic vacuole	0.20226835	0.816023823
ENSG00000133937	GSC subnetwork	0.2023107	0.816104338
ENSG00000162614	NEXN subnetwork	0.20253428	0.816666667
ENSG00000144029	MRPS5 subnetwork	0.20273191	0.816666667
ENSG00000177479	ARIH2 subnetwork	0.20269543	0.816770538
ENSG00000072952	MRVI1 subnetwork	0.20268374	0.81694531
GO:0010883	regulation of lipid storage	0.20302829	0.817161856
ENSG00000101350	KIF3B subnetwork	0.20311359	0.817199434
GO:0004653	polypeptide N-acetylgalactosaminyltransferase activity	0.20319249	0.817279412
GO:0006470	protein dephosphorylation	0.20296047	0.817327293
ENSG00000121022	COPS5 subnetwork	0.20302387	0.817350693
ENSG00000031698	SARS subnetwork	0.20372075	0.819522194
ENSG00000115808	STRN subnetwork	0.2039859	0.820330602
ENSG00000180733	ENSG00000180733 subnetwork	0.20408317	0.820466102
ENSG00000011260	UTP18 subnetwork	0.20397362	0.820505936
GO:0001881	receptor recycling	0.20419216	0.820799209
ENSG00000084754	HADHA subnetwork	0.20428586	0.82085803
MP:0001240	abnormal epidermis stratum corneum morphology	0.20427321	0.820990966
ENSG00000105671	DDX49 subnetwork	0.20442394	0.82131772
ENSG00000034971	MYOC subnetwork	0.20453515	0.821565585
ENSG00000133818	RRAS2 subnetwork	0.20483407	0.821788732
GO:0008154	actin polymerization or depolymerization	0.20482216	0.821978022
MP:0002865	increased growth rate	0.20492999	0.822007885

ENSG00000148158	SNX30 subnetwork	0.20475144	0.822012401
ENSG00000170820	FSHR subnetwork	0.2046546	0.822053017
GO:0044448	cell cortex part	0.2056124	0.822108366
ENSG00000101608	MYL12A subnetwork	0.20537471	0.822189432
MP:0008210	increased mature B cell number	0.20556647	0.822212862
GO:0051324	prophase	0.20474689	0.822215957
GO:0010611	regulation of cardiac muscle hypertrophy	0.20530522	0.822237841
ENSG00000131196	NFATC1 subnetwork	0.20544839	0.822267491
GO:0006260	DNA replication	0.20553536	0.822303371
ENSG00000163938	GNL3 subnetwork	0.20526035	0.822328459
GO:0033135	regulation of peptidyl-serine phosphorylation	0.20507005	0.822339527
ENSG00000123576	ESX1 subnetwork	0.20523909	0.822405063
KEGG_PRION_DISEASES	KEGG_PRION_DISEASES	0.20575397	0.822509122
MP:0004486	decreased response of heart to induced stress	0.20520791	0.822566123
ENSG00000173530	TNFRSF10D subnetwork	0.2051694	0.822600619
GO:0061099	negative regulation of protein tyrosine kinase activity	0.20590226	0.823007856
ENSG00000132383	RPA1 subnetwork	0.20608383	0.823100645
REACTOME_DNA_REPAIR	REACTOME_DNA_REPAIR	0.20600126	0.823169705
MP:0000820	abnormal choroid plexus morphology	0.20608146	0.823317443
GO:0005452	inorganic anion exchanger activity	0.2062486	0.823353881
ENSG00000143942	CHAC2 subnetwork	0.20622956	0.823556614
GO:0001961	positive regulation of cytokine-mediated signaling pathway	0.2067678	0.825133016
GO:0006625	protein targeting to peroxisome	0.20697931	0.825237829
ENSG00000092330	TINF2 subnetwork	0.20674711	0.825308123
ENSG00000183023	SLC8A1 subnetwork	0.20716863	0.825447427
GO:0072662	protein localization to peroxisome	0.20697931	0.825468794
ENSG00000065485	PDIA5 subnetwork	0.20716651	0.825678322
GO:0072663	establishment of protein localization to peroxisome	0.20697931	0.825699888
ENSG00000150991	UBC subnetwork	0.20738056	0.826062046
GO:0046660	female sex differentiation	0.2073481	0.826139223
MP:0002857	cochlear ganglion degeneration	0.20779565	0.82650014
ENSG00000173210	ABLIM3 subnetwork	0.20777774	0.826647125
ENSG00000130561	SAG subnetwork	0.20763385	0.826795194
REACTOME_FATTY_ACID_TRIA	REACTOME_FATTY_ACID_TRIACYLGLYCEROL_AND_KETONE	0.20769478	0.826829609
GO:0007569	cell aging	0.20777104	0.826877967
ENSG00000159023	EPB41 subnetwork	0.20812256	0.827007808
ENSG00000166333	ILK subnetwork	0.20804969	0.827022879
GO:0034622	cellular macromolecular complex assembly	0.20810105	0.827140865
ENSG00000120800	UTP20 subnetwork	0.20884999	0.827153974
KEGG_B_CELL_RECEPTOR_SIGI	KEGG_B_CELL_RECEPTOR_SIGNALING_PATHWAY	0.2083508	0.82718663
MP:0005670	abnormal white adipose tissue physiology	0.20824718	0.827215719
GO:0030902	hindbrain development	0.20840832	0.82722083
ENSG00000085872	CHERP subnetwork	0.20858353	0.827225932
ENSG00000132300	PTCD3 subnetwork	0.20867215	0.827246175
ENSG00000153879	CEBPG subnetwork	0.20875116	0.82730812
ENSG00000004660	CAMKK1 subnetwork	0.20883027	0.827328329
GO:0000118	histone deacetylase complex	0.20822243	0.82733482
ENSG00000117533	VAMP4 subnetwork	0.20854156	0.827400501
MP:0000598	abnormal liver morphology	0.20834201	0.827403176
ENSG00000100448	CTSG subnetwork	0.20853979	0.827630846
ENSG00000099399	MAGEB2 subnetwork	0.2090221	0.827632676
REACTOME_ENDOGENOUS_ST	REACTOME_ENDOGENOUS_STEROLS	0.20921227	0.828291667
ENSG00000168496	FEN1 subnetwork	0.21007903	0.828514112

ENSG00000161326	DUSP14 subnetwork	0.20991557	0.828551648
MP:0002041	increased pituitary adenoma incidence	0.2099928	0.8286268
ENSG00000132432	SEC61G subnetwork	0.21017049	0.828658368
MP:0003215	renal interstitial fibrosis	0.21057324	0.828664091
GO:0052548	regulation of endopeptidase activity	0.21006135	0.82870191
ENSG00000072501	SMC1A subnetwork	0.20991486	0.828781163
GO:0032872	regulation of stress-activated MAPK cascade	0.21055792	0.82881005
ENSG00000142534	RPS11 subnetwork	0.20939953	0.828880866
ENSG00000176105	YES1 subnetwork	0.20989841	0.828913827
ENSG00000112335	SNX3 subnetwork	0.21054094	0.828956089
ENSG00000169641	LUZP1 subnetwork	0.21026139	0.828968473
MP:0001718	abnormal visceral yolk sac morphology	0.21070184	0.828987307
GO:0004954	prostanoid receptor activity	0.20987951	0.829046563
ENSG00000106991	ENG subnetwork	0.21041945	0.829104478
ENSG00000089902	RCOR1 subnetwork	0.21053166	0.829157459
ENSG00000140575	IQGAP1 subnetwork	0.21049177	0.829165515
GO:0004953	icosanoid receptor activity	0.20987951	0.829276407
MP:0003025	increased vasoconstriction	0.21041643	0.829319878
ENSG00000206286	VPS52 subnetwork	0.20985	0.829381586
ENSG00000060069	CTDP1 subnetwork	0.21088404	0.82942069
ENSG00000168488	ATXN2L subnetwork	0.2109941	0.82953668
ENSG00000112478	ENSG00000112478 subnetwork	0.20985	0.82961165
MP:0000255	vasculature congestion	0.21106973	0.829625034
MP:0005353	abnormal patella morphology	0.2111636	0.829837376
ENSG00000206214	ENSG00000206214 subnetwork	0.20985	0.829841842
ENSG00000166508	MCM7 subnetwork	0.2113084	0.829917355
ENSG00000087157	PGS1 subnetwork	0.21127667	0.830022045
MP:0004860	dilated kidney collecting duct	0.20984879	0.830058285
MP:0003045	fibrosis	0.20984443	0.830288728
GO:0048017	inositol lipid-mediated signaling	0.2115594	0.830429397
GO:0048015	phosphatidylinositol-mediated signaling	0.2115594	0.83065804
MP:0000157	abnormal sternum morphology	0.21167434	0.830737479
ENSG00000134574	DDB2 subnetwork	0.21152261	0.830776646
ENSG00000114107	CEP70 subnetwork	0.21191692	0.831636864
ENSG00000029534	ANK1 subnetwork	0.21224239	0.832755776
MP:0001614	abnormal blood vessel morphology	0.21229564	0.832788012
GO:0060445	branching involved in salivary gland morphogenesis	0.21239772	0.833095107
GO:0031058	positive regulation of histone modification	0.2124563	0.833140973
MP:0003312	abnormal locomotor coordination	0.21258017	0.833365385
ENSG00000186115	CYP4F2 subnetwork	0.21276562	0.834111508
ENSG00000138032	PPM1B subnetwork	0.21304414	0.834700878
MP:0000259	abnormal vascular development	0.2130268	0.834833928
ENSG00000198062	POTEH subnetwork	0.2132199	0.834942403
MP:0008212	absent mature B cells	0.21302227	0.835063152
ENSG00000142937	RPS8 subnetwork	0.21331859	0.83512476
ENSG00000041357	PSMA4 subnetwork	0.2132098	0.83515775
GO:0009110	vitamin biosynthetic process	0.21356851	0.835786732
GO:0030031	cell projection assembly	0.21366445	0.835955056
MP:0000827	dilated third ventricle	0.2137547	0.836013699
GO:0048146	positive regulation of fibroblast proliferation	0.21397989	0.836120996
REACTOME_BIOSYNTHESIS_OF	REACTOME_BIOSYNTHESIS_OF_THE_N:GLYCAN_PRECURSC	0.21397025	0.836295181
ENSG00000135018	UBQLN1 subnetwork	0.21393429	0.836414681
ENSG00000029725	RABEP1 subnetwork	0.21418191	0.836648427

GO:0004004	ATP-dependent RNA helicase activity	0.21429035	0.836843545
GO:0051130	positive regulation of cellular component organization	0.21417439	0.836850027
GO:0016706	oxidoreductase activity, acting on paired donors, with incor	0.21451664	0.837544435
GO:0055074	calcium ion homeostasis	0.21465149	0.837725533
ENSG00000071894	CPSF1 subnetwork	0.21483963	0.83826182
ENSG00000175793	SFN subnetwork	0.21545265	0.840396175
ENSG00000117724	CENPF subnetwork	0.21554876	0.8404944
GO:0060249	anatomical structure homeostasis	0.21591779	0.840509954
GO:0043124	negative regulation of I-kappaB kinase/NF-kappaB cascade	0.21595412	0.840526172
ENSG00000164506	STXBP5 subnetwork	0.21580119	0.840600273
GO:0005741	mitochondrial outer membrane	0.21589343	0.840657392
GO:0012507	ER to Golgi transport vesicle membrane	0.21575558	0.840665939
GO:0015299	solute:hydrogen antiporter activity	0.21569292	0.840677041
ENSG00000135269	TES subnetwork	0.21601834	0.840678659
ENSG00000136021	SCYL2 subnetwork	0.21630913	0.84068881
ENSG00000112186	CAP2 subnetwork	0.21624483	0.840767974
ENSG00000136504	KAT7 subnetwork	0.21566479	0.840770071
ENSG0000010803	SCMH1 subnetwork	0.21613969	0.840871935
ENSG00000111358	GTF2H3 subnetwork	0.21621572	0.840928902
ENSG00000115977	AAK1 subnetwork	0.21653662	0.840954842
ENSG00000100105	PATZ1 subnetwork	0.21659497	0.840984498
ENSG00000144580	RQCD1 subnetwork	0.21649301	0.841006803
GO:0005089	Rho guanyl-nucleotide exchange factor activity	0.21643235	0.841072401
ENSG00000115091	ACTR3 subnetwork	0.21683411	0.841277174
GO:0051099	positive regulation of binding	0.2168003	0.841410709
MP:0003057	abnormal epicardium morphology	0.21675258	0.841476346
ENSG00000133627	ACTR3B subnetwork	0.21693508	0.841496876
ENSG00000172053	QARS subnetwork	0.21708845	0.841730038
MP:0000364	abnormal vascular regression	0.21725758	0.842316047
ENSG00000182511	FES subnetwork	0.21770271	0.843054802
ENSG00000156802	ATAD2 subnetwork	0.21767345	0.843188602
REACTOME_CITRIC_ACID_CYCLE	REACTOME_CITRIC_ACID_CYCLE_TCA_CYCLE	0.21797098	0.843306233
MP:0002413	abnormal megakaryocyte progenitor cell morphology	0.21761656	0.843308903
ENSG00000150990	DHX37 subnetwork	0.21788814	0.843356833
ENSG00000151835	SACS subnetwork	0.21795128	0.843426403
GO:0046470	phosphatidylcholine metabolic process	0.21786731	0.843531326
ENSG00000134982	APC subnetwork	0.2182881	0.84444595
MP:0004251	failure of heart looping	0.21835465	0.844515168
MP:0004597	increased susceptibility to noise-induced hearing loss	0.21844332	0.844584349
GO:0015101	organic cation transmembrane transporter activity	0.21865274	0.844844384
ENSG00000132970	WASF3 subnetwork	0.21859	0.844883595
ENSG00000120798	NR2C1 subnetwork	0.21896407	0.845752165
ENSG00000114767	RRP9 subnetwork	0.21914676	0.846145523
GO:0048660	regulation of smooth muscle cell proliferation	0.21923902	0.846268253
ENSG00000171208	NETO2 subnetwork	0.21942078	0.846836983
ENSG00000113649	TCERG1 subnetwork	0.21963933	0.847042139
MP:0001648	abnormal apoptosis	0.21973904	0.847043737
ENSG00000163602	RYBP subnetwork	0.21960948	0.847149419
ENSG00000175550	DRAP1 subnetwork	0.21972348	0.847191466
ENSG00000155130	MARCKS subnetwork	0.21958873	0.847283784
GO:0008289	lipid binding	0.22004573	0.848164642
ENSG00000100599	RIN3 subnetwork	0.22023665	0.848300971
GO:0008138	protein tyrosine/serine/threonine phosphatase activity	0.22019356	0.848354465

ENSG00000160199	PKNOX1 subnetwork	0.22017549	0.848448462
MP:0001596	hypotension	0.22045053	0.849218118
GO:0042634	regulation of hair cycle	0.22054719	0.849433962
GO:0005385	zinc ion transmembrane transporter activity	0.22064597	0.849555376
ENSG00000173801	JUP subnetwork	0.22113308	0.849677246
GO:0010591	regulation of lamellipodium assembly	0.22111736	0.849865483
ENSG00000181656	GPR88 subnetwork	0.22086708	0.850067349
ENSG00000034053	APBA2 subnetwork	0.22111657	0.850094187
ENSG00000197711	ENSG00000197711 subnetwork	0.22127886	0.850134445
GO:0008180	signalosome	0.22103258	0.850242326
ENSG00000197971	MBP subnetwork	0.221101	0.850269179
ENSG00000067704	IARS2 subnetwork	0.22151387	0.850416443
GO:0045862	positive regulation of proteolysis	0.22102456	0.850430918
ENSG00000100485	SOS2 subnetwork	0.22148002	0.850497178
ENSG00000143727	ACP1 subnetwork	0.22145979	0.850685484
ENSG00000102010	BMX subnetwork	0.22167652	0.850698362
ENSG00000149273	RPS3 subnetwork	0.22178517	0.850980129
MP:0003120	abnormal tracheal cartilage morphology	0.22184648	0.85104698
GO:0021854	hypothalamus development	0.22277362	0.851483957
ENSG00000168906	MAT2A subnetwork	0.22271955	0.851577962
ENSG00000164134	NAA15 subnetwork	0.22266316	0.851618513
ENSG00000141434	MEP1B subnetwork	0.22208251	0.851650121
ENSG00000129152	MYOD1 subnetwork	0.22206506	0.851784756
REACTOME_NEPHRIN_INTERACTIONS	REACTOME_NEPHRIN_INTERACTIONS	0.22235092	0.851795284
MP:0005326	abnormal podocyte morphology	0.22265981	0.851819641
ENSG00000102978	POLR2C subnetwork	0.2222734	0.851849866
ENSG00000147403	RPL10 subnetwork	0.22243758	0.851861773
GO:0000122	negative regulation of transcription from RNA polymerase I	0.22249924	0.851914837
ENSG00000167088	SNRPD1 subnetwork	0.22233424	0.851929778
ENSG00000113161	HMGCR subnetwork	0.22262695	0.851953961
MP:0000382	underdeveloped hair follicles	0.22225163	0.851997855
GO:0010575	positive regulation vascular endothelial growth factor production	0.22259253	0.852021419
ENSG00000198373	WWP2 subnetwork	0.2229719	0.8521251
KEGG_BETA_ALANINE_METABOLISM	KEGG_BETA_ALANINE_METABOLISM	0.22224308	0.852186159
ENSG00000153094	BCL2L1 subnetwork	0.2232858	0.853113308
ENSG00000117322	CR2 subnetwork	0.22343466	0.853218483
GO:0030971	receptor tyrosine kinase binding	0.22342356	0.853419717
ENSG00000165494	PCF11 subnetwork	0.22372506	0.854325768
GO:0005643	nuclear pore	0.22381238	0.854471436
ENSG00000174827	PDZK1 subnetwork	0.22415706	0.855189434
ENSG00000141510	TP53 subnetwork	0.22411273	0.855310915
ENSG00000088356	PDRG1 subnetwork	0.22428215	0.85532
MP:0000932	absent notochord	0.22422686	0.855334756
GO:0048661	positive regulation of smooth muscle cell proliferation	0.22453512	0.856158358
KEGG_HISTIDINE_METABOLISM	KEGG_HISTIDINE_METABOLISM	0.22483034	0.856566329
ENSG00000110955	ATP5B subnetwork	0.22479091	0.856661338
ENSG00000123338	NCKAP1L subnetwork	0.22492472	0.856724368
ENSG00000173273	TNKS subnetwork	0.22478823	0.85684968
GO:0031527	filopodium membrane	0.22510193	0.857188498
MP:0000065	abnormal bone marrow cavity morphology	0.2254115	0.858089409
ENSG00000124356	STAMBP subnetwork	0.22555954	0.858111702
ENSG00000197471	SPN subnetwork	0.22538776	0.858211339
ENSG00000089048	ESF1 subnetwork	0.22552108	0.858246874

ENSG00000055130	CUL1 subnetwork	0.2258532	0.858838384
ENSG00000153922	CHD1 subnetwork	0.22581605	0.858893911
GO:0032129	histone deacetylase activity (H3-K9 specific)	0.22674858	0.859538951
GO:0016607	nuclear speck	0.22629221	0.859585767
GO:0032350	regulation of hormone metabolic process	0.2271365	0.859587411
ENSG00000213066	FGFR1OP subnetwork	0.22721642	0.859637758
ENSG00000139719	VPS33A subnetwork	0.22613723	0.859699708
GO:0006635	fatty acid beta-oxidation	0.22712406	0.859748677
GO:0046969	NAD-dependent histone deacetylase activity (H3-K9 specific)	0.22674858	0.859766764
MP:0009285	increased gonadal fat pad weight	0.2265742	0.859774536
GO:0004889	acetylcholine-activated cation-selective channel activity	0.22628884	0.859800797
ENSG00000131747	TOP2A subnetwork	0.22653301	0.859816928
ENSG00000205339	IPO7 subnetwork	0.22670094	0.859862142
MP:0003710	abnormal physiological neovascularization	0.2270892	0.859870336
GO:0005520	insulin-like growth factor binding	0.22667236	0.859904535
ENSG00000120094	HOXB1 subnetwork	0.22649958	0.85991242
ENSG00000167674	ENSG00000167674 subnetwork	0.22625741	0.859989373
GO:0035088	establishment or maintenance of apical/basal cell polarity	0.22701434	0.859994705
ENSG00000138802	SEC24B subnetwork	0.22706549	0.860005294
ENSG00000174744	BRMS1 subnetwork	0.2264884	0.860140696
GO:0061245	establishment or maintenance of bipolar cell polarity	0.22701434	0.860222458
MP:0005491	pancreatic islet hyperplasia	0.2269614	0.860238411
ENSG00000090020	SLC9A1 subnetwork	0.22764914	0.860705789
GO:0006469	negative regulation of protein kinase activity	0.22775928	0.860954017
ENSG00000206232	ENSG00000206232 subnetwork	0.22801168	0.860955649
ENSG00000204261	ENSG00000204261 subnetwork	0.22801168	0.861182994
ENSG00000158869	FCER1G subnetwork	0.22826108	0.861316275
GO:0003906	DNA-(apurinic or apyrimidinic site) lyase activity	0.2283877	0.861363037
ENSG00000206296	ENSG00000206296 subnetwork	0.22801168	0.86141046
GO:0005759	mitochondrial matrix	0.22797316	0.861466314
ENSG00000132356	PRKAA1 subnetwork	0.22833812	0.861471519
ENSG00000161956	SEN3 subnetwork	0.22825149	0.861530343
ENSG00000087074	PPP1R15A subnetwork	0.22821484	0.861546582
MP:0004837	abnormal neural fold formation	0.22852819	0.861646904
ENSG00000136807	CDK9 subnetwork	0.22849505	0.861729046
ENSG00000138795	LEF1 subnetwork	0.22869377	0.862223393
ENSG00000115289	PCGF1 subnetwork	0.22984142	0.862303459
GO:0040008	regulation of growth	0.22970596	0.862313139
ENSG00000151461	UPF2 subnetwork	0.22978484	0.862375459
ENSG00000163161	ERCC3 subnetwork	0.22984082	0.862529489
ENSG00000105821	DNAJC2 subnetwork	0.2297045	0.862539349
REACTOME_MITOCHONDRIAL_FATTY_ACID_BETA:OXIDATION	REACTOME_MITOCHONDRIAL_FATTY_ACID_BETA:OXIDATION	0.22970336	0.862765678
GO:0005160	transforming growth factor beta receptor binding	0.2296426	0.862795276
ENSG00000124507	PACSIN1 subnetwork	0.22958976	0.862890522
ENSG00000005075	POLR2J subnetwork	0.23015152	0.863043478
ENSG00000106615	RHEB subnetwork	0.2295864	0.863077731
MP:0000830	abnormal diencephalon morphology	0.23014547	0.863217186
ENSG00000080815	PSEN1 subnetwork	0.22957797	0.863304439
ENSG00000072210	ALDH3A2 subnetwork	0.22900455	0.863339479
MP:0010868	increased bone trabecula number	0.22947632	0.863455979
ENSG00000110075	PPP6R3 subnetwork	0.22957313	0.863504992
MP:0004889	increased energy expenditure	0.22944047	0.863590957
ENSG00000204256	BRD2 subnetwork	0.23058245	0.863710099

ENSG00000178921	PFAS subnetwork	0.23072106	0.863794456
ENSG00000143375	CGN subnetwork	0.22938423	0.863795371
ENSG00000000971	CFH subnetwork	0.2292467	0.863802632
MP:0001261	obese	0.22943141	0.863804891
ENSG00000108528	SLC25A11 subnetwork	0.23065833	0.863850379
ENSG00000112526	ENSG00000112526 subnetwork	0.23058245	0.863936142
ENSG00000144231	POLR2D subnetwork	0.229239	0.86395104
ENSG00000104320	NBN subnetwork	0.2291821	0.863954713
ENSG00000162946	DISC1 subnetwork	0.22937954	0.864022626
ENSG00000050820	BCAR1 subnetwork	0.23103485	0.864145768
ENSG00000215077	BRD2 subnetwork	0.23058245	0.864162304
ENSG00000141378	PTRH2 subnetwork	0.23052159	0.864192197
ENSG00000187735	TCEA1 subnetwork	0.23101209	0.864201725
ENSG00000100413	POLR3H subnetwork	0.23112808	0.864285714
ENSG00000164934	DCAF13 subnetwork	0.23100161	0.864362258
ENSG00000020426	MNAT1 subnetwork	0.23124398	0.864438642
ENSG00000109458	GAB1 subnetwork	0.23097052	0.864457516
GO:0030027	lamellipodium	0.2314927	0.865283216
MP:0011402	renal cast	0.23238547	0.866310857
ENSG00000184489	PTP4A3 subnetwork	0.23204206	0.866336375
REACTOME_INTERFERON_SIGNALING	REACTOME_INTERFERON_SIGNALING	0.23216053	0.866340891
REACTOME_SULFUR_AMINO_ACID_METABOLISM	REACTOME_SULFUR_AMINO_ACID_METABOLISM	0.23186943	0.866362213
GO:0008565	protein transporter activity	0.23224643	0.866401772
ENSG00000113318	MSH3 subnetwork	0.2321352	0.866436392
ENSG00000163528	CHCHD4 subnetwork	0.23236163	0.866458333
GO:0051213	dioxygenase activity	0.23197045	0.86648839
ENSG00000198824	CHAMP1 subnetwork	0.23203282	0.866523213
MP:0002465	abnormal eosinophil physiology	0.23235957	0.866684032
ENSG00000083845	RPS5 subnetwork	0.23270335	0.867647059
ENSG00000153317	ASAP1 subnetwork	0.2328693	0.868045798
ENSG00000085063	CD59 subnetwork	0.23300095	0.868127438
ENSG00000162704	ARPC5 subnetwork	0.23335462	0.868233766
ENSG00000131043	C20orf4 subnetwork	0.23297401	0.868275234
ENSG00000129315	CCNT1 subnetwork	0.23335175	0.86845934
GO:0050853	B cell receptor signaling pathway	0.23325704	0.868572914
MP:0004096	abnormal midbrain-hindbrain boundary development	0.23356672	0.868582922
ENSG00000013275	PSMC4 subnetwork	0.2333266	0.868594075
ENSG00000164053	ATRIP subnetwork	0.23319695	0.868629745
ENSG00000204592	HLA-E subnetwork	0.23370037	0.868638132
ENSG00000198900	TOP1 subnetwork	0.2334828	0.868644508
GO:0043297	apical junction assembly	0.23356393	0.868795431
ENSG00000104946	TBC1D17 subnetwork	0.233675	0.868811624
ENSG00000137054	POLR1E subnetwork	0.23426473	0.86889234
ENSG00000106245	BUD31 subnetwork	0.234161	0.86891507
ENSG00000156313	RPGR subnetwork	0.23411923	0.868919969
ENSG00000113141	IK subnetwork	0.23395221	0.868986522
ENSG00000145736	GTF2H2 subnetwork	0.23389842	0.868991444
ENSG00000160469	BRSK1 subnetwork	0.23434997	0.869016818
REACTOME_ABORTIVE_ELONGATION_OF_HIV:1_TRANSCRIPTION	REACTOME_ABORTIVE_ELONGATION_OF_HIV:1_TRANSCRIPTION	0.23408798	0.869067358
ENSG00000196911	KPNA5 subnetwork	0.23425505	0.869078436
GO:0032635	interleukin-6 production	0.23403333	0.869085255
ENSG00000054611	TBC1D22A subnetwork	0.23388914	0.869164938
ENSG00000109103	UNC119 subnetwork	0.23481467	0.869253616

GO:0031060	regulation of histone methylation	0.23447748	0.869283497
GO:0051494	negative regulation of cytoskeleton organization	0.23476533	0.869323172
ENSG00000129625	REEP5 subnetwork	0.23455616	0.86933023
ENSG00000130669	PAK4 subnetwork	0.23459934	0.869364012
ENSG00000157540	DYRK1A subnetwork	0.2347555	0.869509044
ENSG00000132153	DHX30 subnetwork	0.23506211	0.869535484
GO:0000062	fatty-acyl-CoA binding	0.23501619	0.869617966
ENSG00000188878	FBF1 subnetwork	0.23472154	0.869630395
REACTOME_DOUBLE:STRAND_	REACTOME_DOUBLE:STRAND_BREAK_REPAIR	0.23498262	0.86975213
GO:0030889	negative regulation of B cell proliferation	0.23525334	0.869834924
ENSG00000198130	HIBCH subnetwork	0.23522732	0.87000774
ENSG00000196405	EVL subnetwork	0.23566535	0.871196493
MP:0002874	decreased hemoglobin content	0.23622437	0.872429786
ENSG00000132467	UTP3 subnetwork	0.23622433	0.872654639
ENSG00000089737	DDX24 subnetwork	0.23618735	0.872763599
GO:0048147	negative regulation of fibroblast proliferation	0.2364045	0.872771767
REACTOME_RESOLUTION_OF_	REACTOME_RESOLUTION_OF_ABASIC_SITES_AP_SITES	0.23655407	0.872875901
REACTOME_BASE_EXCISION_R	REACTOME_BASE_EXCISION_REPAIR	0.23655407	0.873100695
GO:0022624	proteasome accessory complex	0.23679866	0.873340196
MP:0008540	abnormal cerebrum morphology	0.23675277	0.873359073
MP:0002310	decreased susceptibility to hepatic steatosis	0.23691267	0.873604322
GO:0032461	positive regulation of protein oligomerization	0.23709551	0.874189815
GO:0040014	regulation of multicellular organism growth	0.23717665	0.874196452
ENSG00000128626	MRPS12 subnetwork	0.23819792	0.876218574
ENSG00000116266	STXBP3 subnetwork	0.23792286	0.876239404
ENSG00000101361	NOP56 subnetwork	0.23817748	0.876430588
ENSG00000079841	RIMS1 subnetwork	0.23790932	0.876464543
MP:0000873	thin external granule cell layer	0.23817054	0.87664271
ENSG00000111057	KRT18 subnetwork	0.23785345	0.876658098
GO:0010669	epithelial structure maintenance	0.23790467	0.876676947
ENSG00000103194	USP10 subnetwork	0.23816041	0.876842105
ENSG00000160220	ENSG00000160220 subnetwork	0.23813987	0.877028762
GO:0010745	negative regulation of macrophage derived foam cell differ	0.23927975	0.877115827
ENSG00000134882	UBAC2 subnetwork	0.23944957	0.877133367
ENSG00000115946	PNO1 subnetwork	0.23938457	0.877300613
MP:0002747	abnormal aortic valve morphology	0.23927326	0.877314578
ENSG00000112992	NNT subnetwork	0.23900722	0.877316948
ENSG00000174231	PRPF8 subnetwork	0.23943964	0.877319192
ENSG00000184787	UBE2G2 subnetwork	0.23894796	0.877323944
ENSG00000079335	CDC14A subnetwork	0.23921157	0.877436685
GO:0008653	lipopolysaccharide metabolic process	0.23961112	0.877445722
ENSG00000113300	CNOT6 subnetwork	0.23892159	0.877471824
MP:0000260	abnormal angiogenesis	0.23916329	0.877494882
ENSG00000166603	MC4R subnetwork	0.23912259	0.877591502
GO:0005849	mRNA cleavage factor complex	0.23883194	0.877626858
ENSG00000136931	NR5A1 subnetwork	0.23877551	0.877646757
MP:0009504	abnormal mammary gland epithelium morphology	0.2389215	0.877696644
ENSG00000169062	UPF3A subnetwork	0.23876719	0.877846154
GO:0032844	regulation of homeostatic process	0.23978649	0.877885598
MP:0003109	short femur	0.23875776	0.878058477
GO:0042026	protein refolding	0.24047545	0.878702524
REACTOME_SIGNALING_BY_N	REACTOME_SIGNALING_BY_NODAL	0.24041392	0.878722591
ENSG00000099194	SCD subnetwork	0.24055664	0.878809888

ENSG00000180879	SSR4 subnetwork	0.24041387	0.878946697
ENSG00000113712	CSNK1A1 subnetwork	0.24037963	0.879094388
MP:0006316	increased urine sodium level	0.24036038	0.879280429
ENSG00000005844	ITGAL subnetwork	0.24035366	0.879492088
ENSG00000123106	CCDC91 subnetwork	0.24031342	0.879588971
ENSG00000144381	HSPD1 subnetwork	0.24092027	0.879801325
ENSG00000150337	FCGR1A subnetwork	0.24088897	0.879872611
ENSG00000106123	EPHB6 subnetwork	0.24105848	0.880264833
GO:0032675	regulation of interleukin-6 production	0.24120089	0.88042759
ENSG00000182359	KBTBD3 subnetwork	0.24118655	0.880588086
GO:0045408	regulation of interleukin-6 biosynthetic process	0.24141915	0.881094148
ENSG00000198677	TTC37 subnetwork	0.24156893	0.881141913
ENSG00000196998	WDR45 subnetwork	0.24163704	0.88115942
ENSG00000100129	EIF3L subnetwork	0.24197142	0.881170645
GO:0018107	peptidyl-threonine phosphorylation	0.24155889	0.881315187
GO:0032496	response to lipopolysaccharide	0.24196019	0.881369063
ENSG00000141622	RNF165 subnetwork	0.24181224	0.881423126
MP:0005537	abnormal cerebral aqueduct morphology	0.24193016	0.881478659
REACTOME_PYRUVATE_METABOLISM_AND_CITRIC_ACID_CYCLE	REACTOME_PYRUVATE_METABOLISM_AND_CITRIC_ACID_CYCLE	0.24180591	0.88158363
GO:0010888	negative regulation of lipid storage	0.24219026	0.881827411
ENSG00000116761	CTH subnetwork	0.242261	0.881895458
GO:0005044	scavenger receptor activity	0.2423285	0.881900051
ENSG00000141380	SS18 subnetwork	0.24237685	0.881917322
GO:0043405	regulation of MAP kinase activity	0.24250617	0.881926489
ENSG00000135775	COG2 subnetwork	0.24246286	0.882036004
ENSG00000175197	DDIT3 subnetwork	0.24218861	0.882051282
REACTOME_TRANSPORT_TO_THE_GOLGI_AND_SUBSEQUENT_SORTING	REACTOME_TRANSPORT_TO_THE_GOLGI_AND_SUBSEQUENT_SORTING	0.24259703	0.882095793
MP:0000825	dilated lateral ventricles	0.24294038	0.882409517
ENSG00000139220	PPFIA2 subnetwork	0.24274293	0.882429693
ENSG00000205937	RNPS1 subnetwork	0.24304159	0.882527834
ENSG00000156603	MED19 subnetwork	0.24311739	0.882582848
GO:0033673	negative regulation of kinase activity	0.24292752	0.882594937
MP:0005339	increased susceptibility to atherosclerosis	0.2431788	0.882599899
GO:0004675	transmembrane receptor protein serine/threonine kinase activity	0.24290405	0.882717144
ENSG00000186654	PRR5 subnetwork	0.2428892	0.882877406
GO:0005217	intracellular ligand-gated ion channel activity	0.24346303	0.88357775
ENSG00000196981	WDR5B subnetwork	0.24417536	0.885130018
ENSG00000122965	RBM19 subnetwork	0.24413709	0.885176768
ENSG00000152291	TGOLN2 subnetwork	0.24397535	0.885279252
ENSG00000125107	CNOT1 subnetwork	0.24403963	0.885295604
ENSG00000118058	MLL subnetwork	0.2439326	0.885300809
ENSG00000155957	TMBIM4 subnetwork	0.24411198	0.885324577
ENSG00000075340	ADD2 subnetwork	0.24444583	0.885654807
GO:0000302	response to reactive oxygen species	0.24464443	0.885678265
ENSG00000177688	SUMO4 subnetwork	0.24438799	0.885726906
ENSG00000197386	HTT subnetwork	0.24453215	0.88574672
REACTOME_PLATELET_ACTIVATION_SIGNALING_AND_AGGREGATION	REACTOME_PLATELET_ACTIVATION_SIGNALING_AND_AGGREGATION	0.24471496	0.885757499
ENSG00000160255	ITGB2 subnetwork	0.24460963	0.885775536
REACTOME_INTERLEUKIN:1_SIGNALING	REACTOME_INTERLEUKIN:1_SIGNALING	0.24491324	0.886365927
REACTOME_SNRNP_ASSEMBLY	REACTOME_SNRNP_ASSEMBLY	0.24511747	0.886404834
MP:0010363	increased fibrosarcoma incidence	0.24501252	0.886507937
REACTOME_METABOLISM_OF_NONCODING_RNA	REACTOME_METABOLISM_OF_NONCODING_RNA	0.24511747	0.886628053
ENSG00000172349	IL16 subnetwork	0.24509267	0.88675063

MP:0009791	increased susceptibility to viral infection induced morbidity	0.24559751	0.888220488
MP:0004024	aneuploidy	0.24597355	0.888800905
MP:0002086	abnormal extraembryonic tissue morphology	0.24588841	0.888820423
ENSG00000101336	HCK subnetwork	0.24580415	0.888827378
MP:0008249	abnormal common lymphocyte progenitor cell morphology	0.24586547	0.888930818
ENSG00000178568	ERBB4 subnetwork	0.24607838	0.888954511
GO:0042226	interleukin-6 biosynthetic process	0.24596081	0.888961529
ENSG00000021488	SLC7A9 subnetwork	0.24652247	0.890703518
GO:0005839	proteasome core complex	0.24668799	0.89074818
ENSG00000120948	TARDBP subnetwork	0.24660151	0.890756091
GO:0007265	Ras protein signal transduction	0.2467743	0.890825803
ENSG00000166794	PPIB subnetwork	0.24666116	0.890833752
GO:0016614	oxidoreductase activity, acting on CH-OH group of donors	0.2469565	0.891166876
MP:0009643	abnormal urine homeostasis	0.24702775	0.891206724
ENSG00000134899	ERCC5 subnetwork	0.2470864	0.891259092
GO:0033014	tetrapyrrole biosynthetic process	0.24746014	0.891994488
MP:0005365	abnormal bile salt homeostasis	0.24731721	0.892138917
GO:0006779	porphyrin-containing compound biosynthetic process	0.24746014	0.892218045
ENSG00000212695	ENSG00000212695 subnetwork	0.24741809	0.89231637
GO:0005765	lysosomal membrane	0.24764942	0.89251002
GO:0048821	erythrocyte development	0.24786697	0.893075382
GO:0048659	smooth muscle cell proliferation	0.24797979	0.893128911
MP:0005560	decreased circulating glucose level	0.24813507	0.893282462
ENSG00000138674	SEC31A subnetwork	0.24797715	0.893352529
MP:0001656	focal hepatic necrosis	0.24810702	0.893355856
MP:0005169	abnormal male meiosis	0.24836388	0.893871936
GO:0016811	hydrolase activity, acting on carbon-nitrogen (but not pepti	0.24869871	0.8948625
GO:0006968	cellular defense response	0.24869409	0.895061265
GO:0030832	regulation of actin filament length	0.24885767	0.895176206
MP:0011099	complete lethality throughout fetal growth and developme	0.24896264	0.895452274
ENSG00000136279	DBNL subnetwork	0.24912668	0.895865601
GO:0016701	oxidoreductase activity, acting on single donors with incorp	0.24937021	0.896441948
GO:0005625	soluble fraction	0.24934978	0.896540959
ENSG00000116213	WRAP73 subnetwork	0.24964113	0.897416375
ENSG00000136068	FLNB subnetwork	0.24980005	0.897791365
GO:0032800	receptor biosynthetic process	0.25003096	0.898154153
ENSG00000144118	RALB subnetwork	0.2499926	0.898340818
REACTOME_JNK_C:JUN_KINAS	REACTOME_JNK_C:JUN_KINASES_PHOSPHORYLATION_ANI	0.25038434	0.899226933
MP:0002209	decreased germ cell number	0.25054404	0.89965096
ENSG00000132470	ITGB4 subnetwork	0.2508102	0.900099676
MP:0001770	abnormal iron level	0.25074894	0.900149551
GO:0051341	regulation of oxidoreductase activity	0.25105806	0.900784753
ENSG00000115761	NOL10 subnetwork	0.25163825	0.901817277
MP:0001613	abnormal vasodilation	0.25162901	0.901979582
MP:0002628	hepatic steatosis	0.25183187	0.902077114
ENSG00000168502	CCDC165 subnetwork	0.25159375	0.902079701
GO:0051017	actin filament bundle assembly	0.25179946	0.902102513
ENSG00000057608	GDI2 subnetwork	0.25176149	0.9021777
ENSG00000043093	DCUN1D1 subnetwork	0.25206239	0.902498757
GO:0060760	positive regulation of response to cytokine stimulus	0.2520393	0.902698334
ENSG00000134597	RBMX2 subnetwork	0.25215291	0.902709421
ENSG00000075413	MARK3 subnetwork	0.25242167	0.903367296
ENSG00000162129	CLPB subnetwork	0.25325157	0.903368838

ENSG00000118515	SGK1 subnetwork	0.25319303	0.903468781
GO:0007128	meiotic prophase I	0.25313875	0.903630731
GO:0071706	tumor necrosis factor superfamily cytokine production	0.25269563	0.903649454
ENSG00000133740	E2F5 subnetwork	0.25397852	0.903718804
GO:0000502	proteasome complex	0.25391947	0.903781513
ENSG00000165934	CPSF2 subnetwork	0.2526821	0.903811771
ENSG00000182621	PLCB1 subnetwork	0.25298828	0.903831845
ENSG00000107758	PPP3CB subnetwork	0.25312876	0.90384234
ENSG00000065833	ME1 subnetwork	0.25258462	0.903850932
ENSG00000109133	TMEM33 subnetwork	0.25352318	0.903862342
ENSG00000213465	ARL2 subnetwork	0.2535887	0.903873762
GO:0030518	intracellular steroid hormone receptor signaling pathway	0.25345679	0.903888063
ENSG00000198734	F5 subnetwork	0.25295628	0.903894815
ENSG00000099817	POLR2E subnetwork	0.25389266	0.90394314
MP:0009642	abnormal blood homeostasis	0.25266129	0.903961749
GO:0051568	histone H3-K4 methylation	0.25293151	0.904019851
MP:0008280	male germ cell apoptosis	0.25312646	0.904066452
ENSG00000185787	MORF4L1 subnetwork	0.25389233	0.904166667
ENSG00000136003	ISCU subnetwork	0.2529169	0.904182179
ENSG00000115221	ITGB6 subnetwork	0.25416148	0.904323123
ENSG00000198034	RPS4X subnetwork	0.2538821	0.90436557
ENSG00000103426	CORO7 subnetwork	0.25383168	0.904416131
ENSG00000111269	CREBL2 subnetwork	0.25378883	0.904466716
ENSG00000039537	C6 subnetwork	0.2544226	0.904814815
MP:0002152	abnormal brain morphology	0.25468923	0.904834731
GO:0008023	transcription elongation factor complex	0.25465809	0.904909943
ENSG00000167508	MVD subnetwork	0.25440207	0.904939491
ENSG00000183741	CBX6 subnetwork	0.25463916	0.905096249
ENSG00000107554	DNMBP subnetwork	0.25463472	0.905319674
GO:0072507	divalent inorganic cation homeostasis	0.25492263	0.905536375
GO:0005892	acetylcholine-gated channel complex	0.25497481	0.905547337
GO:0006874	cellular calcium ion homeostasis	0.25512694	0.905928026
GO:0032012	regulation of ARF protein signal transduction	0.25526617	0.906172992
GO:0010893	positive regulation of steroid biosynthetic process	0.25547771	0.906279242
ENSG00000159251	ACTC1 subnetwork	0.25546599	0.906465517
GO:0008064	regulation of actin polymerization or depolymerization	0.25545722	0.906664203
GO:0032370	positive regulation of lipid transport	0.25571942	0.907151649
MP:0004986	abnormal osteoblast morphology	0.25581793	0.907186808
ENSG00000143947	RPS27A subnetwork	0.25615553	0.908439961
GO:0016861	intramolecular oxidoreductase activity, interconverting ald	0.25626678	0.908484998
ENSG00000156261	CCT8 subnetwork	0.25624334	0.908646986
GO:0010906	regulation of glucose metabolic process	0.2566677	0.908843036
ENSG00000134248	HBXIP subnetwork	0.25657722	0.908845209
ENSG00000147604	RPL7 subnetwork	0.25656375	0.908982551
ENSG00000180628	PCGF5 subnetwork	0.25651149	0.909021632
ENSG00000141959	PFKL subnetwork	0.25648067	0.909048439
ENSG00000156299	TIAM1 subnetwork	0.25702145	0.909102061
GO:0005923	tight junction	0.25696588	0.909141104
ENSG00000070087	PFN2 subnetwork	0.25680608	0.909160118
ENSG00000164105	SAP30 subnetwork	0.2568567	0.909170145
GO:0070160	occluding junction	0.25696588	0.909364261
ENSG00000067066	SP100 subnetwork	0.2574772	0.909458466
ENSG00000215760	ENSG00000215760 subnetwork	0.25735904	0.909561167

ENSG00000115392	FANCL subnetwork	0.25744414	0.909583333
GO:0010494	cytoplasmic stress granule	0.25814526	0.909604106
GO:0016747	transferase activity, transferring acyl groups other than ami	0.25820394	0.909662839
ENSG00000169621	APLF subnetwork	0.25725511	0.909725288
ENSG00000187325	TAF9B subnetwork	0.25735904	0.909784208
ENSG00000114270	COL7A1 subnetwork	0.2581427	0.909826448
MP:0000828	abnormal fourth ventricle morphology	0.25811652	0.909889976
ENSG00000132361	KIAA0664 subnetwork	0.2576233	0.909897109
ENSG00000132664	POLR3F subnetwork	0.25810417	0.910051357
GO:0004428	inositol or phosphatidylinositol kinase activity	0.25808616	0.910225049
REACTOME_REMOVAL_OF_DN	REACTOME_REMOVAL_OF_DNA_PATCH_CONTAINING_AB	0.25802462	0.910276486
GO:0004519	endonuclease activity	0.25864608	0.910324628
ENSG00000140564	FURIN subnetwork	0.25779725	0.910347783
REACTOME_RESOLUTION_OF_	REACTOME_RESOLUTION_OF_AP_SITES_VIA_THE_MULTIP	0.25802462	0.910499266
MP:0003658	abnormal capillary morphology	0.25882053	0.91051476
MP:0004756	abnormal proximal convoluted tubule morphology	0.25864394	0.910546875
ENSG00000119139	TJP2 subnetwork	0.25790862	0.910553379
REACTOME_ANTIGEN_PROCES	REACTOME_ANTIGEN_PROCESSING:CROSS_PRESENTATION	0.25862095	0.910683761
ENSG00000120694	HSPH1 subnetwork	0.25879932	0.910688141
GO:0044403	symbiosis, encompassing mutualism through parasitism	0.25801937	0.910722154
ENSG00000186831	ENSG00000186831 subnetwork	0.25894496	0.910804878
ENSG00000108039	XPNPEP1 subnetwork	0.25857566	0.910893991
ENSG00000112118	MCM3 subnetwork	0.25922244	0.911335934
ENSG00000183508	FAM46C subnetwork	0.25930941	0.911369729
ENSG00000072062	PRKACA subnetwork	0.25921137	0.911533772
ENSG00000113070	HBEGF subnetwork	0.25975854	0.911988802
GO:0000723	telomere maintenance	0.25972676	0.912064767
GO:0045732	positive regulation of protein catabolic process	0.25952273	0.912110136
ENSG00000134419	RPS15A subnetwork	0.25989118	0.912229253
REACTOME_DESTABILIZATION_	REACTOME_DESTABILIZATION_OF_MRNA_BY_AUF1_HNRN	0.25971201	0.912238188
GO:0010212	response to ionizing radiation	0.25969833	0.912387333
KEGG_NON_SMALL_CELL_LUN	KEGG_NON_SMALL_CELL_LUNG_CANCER	0.26096101	0.912781955
ENSG00000151322	NPAS3 subnetwork	0.26089658	0.912797186
ENSG00000126226	PCID2 subnetwork	0.26079274	0.912864078
MP:0000125	absent incisors	0.26027747	0.912953053
ENSG00000203811	HIST2H3C subnetwork	0.26076782	0.912976451
ENSG00000080603	SRCAP subnetwork	0.26024517	0.913017032
MP:0008554	decreased circulating tumor necrosis factor level	0.26089241	0.913018685
ENSG00000183598	HIST2H3D subnetwork	0.26076782	0.913198154
ENSG00000100902	PSMA6 subnetwork	0.26058346	0.913304982
GO:0044282	small molecule catabolic process	0.26075056	0.913371387
MP:0008477	decreased spleen red pulp amount	0.26069558	0.913386783
GO:0005637	nuclear inner membrane	0.26055777	0.913429752
MP:0011427	mesangial cell hyperplasia	0.26051442	0.913542426
GO:0032320	positive regulation of Ras GTPase activity	0.26043867	0.913582198
KEGG_FOCAL_ADHESION	KEGG_FOCAL_ADHESION	0.26137706	0.914051891
ENSG00000182533	CAV3 subnetwork	0.26197346	0.91482333
ENSG00000182774	RPS17L subnetwork	0.26176956	0.914898256
ENSG00000175536	LIPT2 subnetwork	0.26185937	0.914991523
GO:0033627	cell adhesion mediated by integrin	0.26169129	0.915002424
ENSG00000136950	ARPC5L subnetwork	0.26196267	0.91503268
ENSG00000184779	RPS17 subnetwork	0.26176956	0.915119942
GO:0002825	regulation of T-helper 1 type immune response	0.26165472	0.915127273

GO:0009451	RNA modification	0.26193296	0.915157385
ENSG00000186868	MAPT subnetwork	0.26232043	0.915232108
GO:0046580	negative regulation of Ras protein signal transduction	0.26229169	0.915405079
GO:0006354	transcription elongation, DNA-dependent	0.26246133	0.915445975
ENSG00000211455	STK38L subnetwork	0.26229065	0.915626512
GO:0032787	monocarboxylic acid metabolic process	0.26224171	0.915666586
ENSG00000169372	CRADD subnetwork	0.26298851	0.916698865
GO:0032200	telomere organization	0.26298725	0.91692029
ENSG00000169696	ASPSCR1 subnetwork	0.26292314	0.916924378
ENSG00000057468	MSH4 subnetwork	0.26289849	0.917049299
ENSG00000185621	LMLN subnetwork	0.26329614	0.917181467
ENSG00000149100	EIF3M subnetwork	0.26329283	0.917402848
GO:0016616	oxidoreductase activity, acting on the CH-OH group of don	0.26325203	0.917455336
ENSG00000173889	PHC3 subnetwork	0.26355333	0.918287093
GO:0043903	regulation of symbiosis, encompassing mutualism through	0.2637748	0.918801254
ENSG00000170632	ARMC10 subnetwork	0.26399724	0.919165863
GO:0071346	cellular response to interferon-gamma	0.26394305	0.919254883
MP:0003352	increased circulating renin level	0.2642978	0.919795181
ENSG00000124228	DDX27 subnetwork	0.26429595	0.920016872
GO:0008080	N-acetyltransferase activity	0.26446594	0.920284269
ENSG00000117632	STMN1 subnetwork	0.26464273	0.920797206
GO:0030529	ribonucleoprotein complex	0.26488299	0.921478449
ENSG00000197157	SND1 subnetwork	0.26507314	0.921918633
ENSG00000186810	CXCR3 subnetwork	0.26549275	0.922811448
GO:0016289	CoA hydrolase activity	0.26547988	0.92302141
GO:0004407	histone deacetylase activity	0.26545672	0.923159288
GO:0033558	protein deacetylase activity	0.26545672	0.923381468
ENSG00000165516	KLHDC2 subnetwork	0.26584784	0.923533654
GO:0070925	organelle assembly	0.26580028	0.923671556
ENSG00000168556	ING2 subnetwork	0.26600145	0.924032684
GO:0051240	positive regulation of multicellular organismal process	0.26619459	0.924123439
MP:0008058	abnormal DNA repair	0.26616583	0.92426135
ENSG00000171992	SYNPO subnetwork	0.26616559	0.924483421
ENSG00000204523	ENSG00000204523 subnetwork	0.26643773	0.924507921
GO:0000784	nuclear chromosome, telomeric region	0.26649896	0.924550036
GO:0043393	regulation of protein binding	0.26641328	0.924657863
ENSG00000161939	C17orf49 subnetwork	0.26662898	0.924682178
REACTOME_NRAGE_SIGNALS_	REACTOME_NRAGE_SIGNALS_DEATH_THROUGH_JNK	0.26661855	0.924868042
GO:0051058	negative regulation of small GTPase mediated signal transd	0.26678862	0.925047962
ENSG00000166226	CCT2 subnetwork	0.26706814	0.925665308
ENSG00000182247	UBE2E2 subnetwork	0.2677085	0.925920612
ENSG00000182326	C1S subnetwork	0.26720213	0.925982742
ENSG00000163781	TOPBP1 subnetwork	0.26760962	0.926004785
MP:0002894	abnormal otolith morphology	0.26731328	0.926018208
ENSG00000125755	SYMPK subnetwork	0.26726864	0.926036425
ENSG00000039987	BEST2 subnetwork	0.2676878	0.926058359
GO:0032007	negative regulation of TOR signaling cascade	0.267399	0.92605988
GO:0042158	lipoprotein biosynthetic process	0.26760166	0.926166547
GO:0007204	elevation of cytosolic calcium ion concentration	0.26750989	0.926179076
GO:0090079	translation regulator activity, nucleic acid binding	0.26759379	0.926352322
MP:0004560	abnormal chorionic plate morphology	0.26750734	0.926364943
GO:0032640	tumor necrosis factor production	0.26803484	0.926523297
GO:0032680	regulation of tumor necrosis factor production	0.26803484	0.926744742

ENSG00000164338	UTP15 subnetwork	0.26883274	0.926757208
ENSG00000147853	AK3 subnetwork	0.26881976	0.926823165
GO:0004536	deoxyribonuclease activity	0.26836249	0.926856052
MP:0002790	decreased circulating follicle stimulating hormone level	0.26800919	0.926858714
ENSG00000163516	ANKZF1 subnetwork	0.2689749	0.926899262
ENSG00000147669	POLR2K subnetwork	0.26877311	0.926948749
ENSG00000140368	PSTPIP1 subnetwork	0.26832105	0.926969914
GO:0043603	cellular amide metabolic process	0.26822166	0.927042523
ENSG00000105135	ILVBL subnetwork	0.26853692	0.927046051
ENSG00000108344	PSMD3 subnetwork	0.26907046	0.927059524
MP:0002824	abnormal chorioallantoic fusion	0.26827611	0.927059947
ENSG00000102145	GATA1 subnetwork	0.26913388	0.927064985
GO:0019216	regulation of lipid metabolic process	0.26895269	0.927072415
GO:0019058	viral infectious cycle	0.26874647	0.927110157
ENSG000000062485	CS subnetwork	0.26934838	0.927176499
REACTOME_STABILIZATION_OF_P53	REACTOME_STABILIZATION_OF_P53	0.26853016	0.927231504
MP:0004227	increased cellular sensitivity to ionizing radiation	0.2693097	0.927242446
ENSG00000135829	DHX9 subnetwork	0.26874389	0.927319342
ENSG00000105404	RABAC1 subnetwork	0.26869173	0.927325859
GO:0005024	transforming growth factor beta-activated receptor activity	0.2693048	0.927439315
ENSG00000163110	PDLIM5 subnetwork	0.26952675	0.927621879
MP:0004030	induced chromosome breakage	0.26976467	0.928197813
ENSG00000132604	TERF2 subnetwork	0.27000484	0.928856667
ENSG00000215120	ENSG00000215120 subnetwork	0.27018869	0.929194392
ENSG00000120158	RCL1 subnetwork	0.27026767	0.929246852
MP:0000116	abnormal tooth development	0.27034845	0.929251781
ENSG00000196284	SUPT3H subnetwork	0.27052728	0.929707908
ENSG00000168495	POLR3D subnetwork	0.27067923	0.929817276
ENSG00000172172	MRPL13 subnetwork	0.27060884	0.929855176
GO:0043281	regulation of cysteine-type endopeptidase activity involved	0.2706692	0.929978638
MP:0010701	fusion of atlas and odontoid process	0.27106786	0.930925267
ENSG00000204319	ENSG00000204319 subnetwork	0.27156242	0.931851588
ENSG00000137055	PLAA subnetwork	0.27165397	0.931915146
GO:0051298	centrosome duplication	0.27175949	0.932026066
GO:0051693	actin filament capping	0.27155288	0.93204885
GO:0005730	nucleolus	0.27151458	0.932222486
ENSG00000154917	RAB6B subnetwork	0.27191572	0.932224064
ENSG00000136715	SAP130 subnetwork	0.27185887	0.932243544
MP:0000596	abnormal liver development	0.27219197	0.932402367
ENSG00000159461	AMFR subnetwork	0.27217237	0.93256392
ENSG00000140474	ULK3 subnetwork	0.27215686	0.93276107
GO:0006607	NLS-bearing substrate import into nucleus	0.27248009	0.933073101
ENSG00000206300	ENSG00000206300 subnetwork	0.27288277	0.933266415
MP:0000222	decreased neutrophil cell number	0.27294949	0.933270366
GO:0019200	carbohydrate kinase activity	0.27246272	0.933282063
ENSG00000167085	PHB subnetwork	0.27259183	0.933337275
ENSG00000108312	UBTF subnetwork	0.27269976	0.933404255
MP:0000133	abnormal long bone metaphysis morphology	0.27266433	0.93347127
ENSG00000206406	CSNK2B subnetwork	0.27288277	0.933486889
MP:0008411	decreased cellular sensitivity to ultraviolet irradiation	0.27276744	0.9334909
ENSG00000204435	CSNK2B subnetwork	0.27288277	0.933707467
ENSG000000089157	RPLP0 subnetwork	0.27314597	0.933911709
MP:0011186	abnormal visceral endoderm morphology	0.27330304	0.934198726

REACTOME_ETHANOL_OXIDAT	REACTOME_ETHANOL_OXIDATION	0.27360378	0.934969325
MP:0008762	embryonic lethality	0.27398041	0.93522272
REACTOME_CROSS:PRESENTA	REACTOME_CROSS:PRESENTATION_OF_SOLUBLE_EXOGEN	0.27414986	0.935265018
ENSG00000138190	EXOC6 subnetwork	0.27386182	0.935310068
REACTOME_HIV_LIFE_CYCLE	REACTOME_HIV_LIFE_CYCLE	0.27372702	0.935314933
ENSG00000172943	PHF8 subnetwork	0.27410828	0.935320452
ENSG00000101811	CSTF2 subnetwork	0.27393454	0.935360679
MP:0008412	increased cellular sensitivity to oxidative stress	0.27431161	0.935472098
ENSG00000103365	GGA2 subnetwork	0.27384397	0.935483491
GO:0045649	regulation of macrophage differentiation	0.27459356	0.935532816
ENSG00000205246	RPSAP58 subnetwork	0.27429711	0.935657089
ENSG00000177380	PPFIA3 subnetwork	0.27470373	0.935712606
MP:0006264	decreased systemic arterial systolic blood pressure	0.2745835	0.935729412
ENSG00000163785	RYK subnetwork	0.27456411	0.9359261
ENSG00000196792	STRN3 subnetwork	0.27482036	0.936080414
GO:0000314	organellar small ribosomal subunit	0.27522225	0.936131987
GO:0043027	cysteine-type endopeptidase inhibitor activity involved in a	0.27455751	0.936146422
ENSG00000089351	GRAMD1A subnetwork	0.27493109	0.936177715
GO:0005763	mitochondrial small ribosomal subunit	0.27522225	0.936351891
GO:0007031	peroxisome organization	0.27549871	0.936356171
ENSG00000141556	TBCD subnetwork	0.27510785	0.936498237
REACTOME_TRANSPORT_OF_	REACTOME_TRANSPORT_OF_VITAMINS_NUCLEOSIDES_AN	0.27544851	0.936517249
ENSG00000166411	IDH3A subnetwork	0.27519544	0.936536654
ENSG00000183093	ENSG00000183093 subnetwork	0.27536085	0.936557877
ENSG00000004455	AK2 subnetwork	0.27541741	0.936619718
ENSG00000129465	RIPK3 subnetwork	0.27570823	0.937004457
ENSG00000105640	RPL18A subnetwork	0.27597511	0.937593809
GO:0051087	chaperone binding	0.276159	0.938007034
ENSG00000145741	BTF3 subnetwork	0.27628054	0.938150492
GO:0015144	carbohydrate transmembrane transporter activity	0.2771099	0.93893826
ENSG00000146701	MDH2 subnetwork	0.27708492	0.939040936
MP:0009657	failure of chorioallantoic fusion	0.27698866	0.939141119
ENSG00000115816	CEBPZ subnetwork	0.27694575	0.939173689
ENSG00000168421	RHOH subnetwork	0.27705821	0.939178755
GO:0033628	regulation of cell adhesion mediated by integrin	0.27690712	0.939253102
ENSG00000122779	TRIM24 subnetwork	0.27733685	0.939259
ENSG00000102158	MAGT1 subnetwork	0.27730657	0.939385083
ENSG00000175467	SART1 subnetwork	0.27688999	0.93941452
ENSG00000103126	AXIN1 subnetwork	0.27682359	0.939435465
ENSG00000160213	CSTB subnetwork	0.27673385	0.939524256
REACTOME_RNA_POLYMERAS	REACTOME_RNA_POLYMERASE_III_TRANSCRIPTION_TERM	0.27681509	0.939597001
ENSG00000130429	ARPC1B subnetwork	0.27838653	0.939634288
MP:0008056	abnormal retinal ganglion cell morphology	0.27836175	0.939783318
ENSG00000057593	F7 subnetwork	0.27756009	0.939869128
ENSG00000047315	POLR2B subnetwork	0.27822486	0.93988345
GO:0004520	endodeoxyribonuclease activity	0.2788875	0.939906977
ENSG00000077420	APBB1IP subnetwork	0.27880199	0.93993718
ENSG00000168393	DTYMK subnetwork	0.27817708	0.93993938
ENSG00000164070	HSPA4L subnetwork	0.27885597	0.939951151
GO:0018210	peptidyl-threonine modification	0.27833777	0.939979026
ENSG00000055163	CYFIP2 subnetwork	0.2787665	0.940027926
ENSG00000116459	ATP5F1 subnetwork	0.27772814	0.940037374
MP:0010383	increased adenoma incidence	0.27796032	0.940058343

ENSG00000094916	CBX5 subnetwork	0.27783925	0.940065375
ENSG00000080608	KIAA0020 subnetwork	0.27804826	0.94009566
ENSG00000136718	IMP4 subnetwork	0.27811997	0.940109634
ENSG00000008710	PKD1 subnetwork	0.27767705	0.940140187
ENSG00000100142	POLR2F subnetwork	0.2787501	0.940153631
ENSG00000215694	ENSG00000215694 subnetwork	0.27817708	0.940158582
ENSG00000175115	PACS1 subnetwork	0.2779349	0.940231092
ENSG00000112078	KCTD20 subnetwork	0.27782615	0.940273237
ENSG00000164330	EBF1 subnetwork	0.2787152	0.940291036
ENSG00000142494	SLC47A1 subnetwork	0.27868419	0.940440149
MP:0004948	abnormal neuronal precursor proliferation	0.27932752	0.941085542
ENSG00000131370	SH3BP5 subnetwork	0.27927861	0.94112997
ENSG00000145703	IQGAP2 subnetwork	0.27953348	0.941184669
ENSG00000002745	WNT16 subnetwork	0.27961828	0.94122359
MP:0001263	weight loss	0.27941161	0.941227051
REACTOME_ZINC_TRANSPORT	REACTOME_ZINC_TRANSPORTERS	0.27950397	0.941287175
ENSG00000196305	IARS subnetwork	0.27961372	0.941430562
GO:0045624	positive regulation of T-helper cell differentiation	0.27974966	0.941538997
MP:0001216	abnormal epidermal layer morphology	0.27979421	0.941552564
GO:0043244	regulation of protein complex disassembly	0.28010943	0.941884999
GO:0005096	GTPase activator activity	0.28004268	0.941906308
MP:0002128	abnormal blood circulation	0.27999436	0.941939225
ENSG00000067208	EVI5 subnetwork	0.27994668	0.941983759
ENSG00000092847	EIF2C1 subnetwork	0.28024332	0.942072323
GO:0032770	positive regulation of monooxygenase activity	0.28077465	0.942341509
MP:0004748	increased susceptibility to age-related hearing loss	0.28086481	0.94240111
ENSG00000075914	EXOSC7 subnetwork	0.28069174	0.942430556
REACTOME_REGULATION_OF_	REACTOME_REGULATION_OF_ORNITHINE_DECARBOXYLASE	0.28075048	0.942467022
GO:0045740	positive regulation of DNA replication	0.28067209	0.942556147
MP:0001257	increased body length	0.28065566	0.942670218
ENSG00000096238	ENSG00000096238 subnetwork	0.28061186	0.94272643
ENSG00000206394	CLIC1 subnetwork	0.28061186	0.942944856
ENSG00000177700	POLR2L subnetwork	0.28124849	0.942962792
GO:0015645	fatty acid ligase activity	0.28115666	0.943075145
GO:0003950	NAD+ ADP-ribosyltransferase activity	0.28110155	0.943085106
GO:0005657	replication fork	0.28140835	0.943093093
ENSG00000177455	CD19 subnetwork	0.28124312	0.943157651
ENSG00000213719	CLIC1 subnetwork	0.28061186	0.943163384
ENSG00000121858	TNFSF10 subnetwork	0.28139528	0.943264787
ENSG00000133477	FAM83F subnetwork	0.28159726	0.943442623
ENSG00000116191	RALGPS2 subnetwork	0.28175488	0.943537964
ENSG00000143514	TP53BP2 subnetwork	0.28170129	0.943582641
REACTOME_STEROID_HORMO	REACTOME_STEROID_HORMONES	0.2815834	0.943648961
ENSG00000105371	ICAM4 subnetwork	0.28225465	0.944076976
GO:0007159	leukocyte cell-cell adhesion	0.28221184	0.944179345
MP:0005554	decreased circulating creatinine level	0.28274839	0.944352427
MP:0006298	abnormal platelet activation	0.28248039	0.944368954
GO:0034399	nuclear periphery	0.2822023	0.94438552
ENSG00000131368	MRPS25 subnetwork	0.28212491	0.944429066
ENSG00000152495	CAMK4 subnetwork	0.28217426	0.944488007
ENSG00000110367	DDX6 subnetwork	0.28239697	0.94452765
GO:0000803	sex chromosome	0.28246603	0.94452891
ENSG00000131876	SNRPA1 subnetwork	0.28208812	0.944531611

ENSG00000107175	CREB3 subnetwork	0.28274467	0.944535205
ENSG00000171490	RSL1D1 subnetwork	0.28260263	0.944588994
ENSG00000166025	AMOTL1 subnetwork	0.28273149	0.944695052
MP:0005325	abnormal renal glomerulus morphology	0.28271707	0.944808932
ENSG00000165916	PSMC3 subnetwork	0.28316513	0.945480681
ENSG00000186184	POLR1D subnetwork	0.28357638	0.945977936
GO:0071514	genetic imprinting	0.28342875	0.946033571
GO:0009895	negative regulation of catabolic process	0.28372595	0.946037216
ENSG00000196365	LONP1 subnetwork	0.28355585	0.946114943
MP:0005311	abnormal circulating amino acid level	0.28371111	0.946197151
GO:0008374	O-acyltransferase activity	0.2839798	0.946692696
MP:0000186	decreased circulating HDL cholesterol level	0.28452054	0.948243398
ENSG00000163558	PRKCI subnetwork	0.28475847	0.948542575
GO:0030335	positive regulation of cell migration	0.28469661	0.948588154
ENSG00000177971	IMP3 subnetwork	0.28487591	0.948646168
GO:0016272	prefoldin complex	0.2850646	0.949059417
MP:0005565	increased blood urea nitrogen level	0.28522964	0.949311927
ENSG00000171861	RNMTL1 subnetwork	0.28562335	0.9501146
REACTOME_APOPTOTIC_EXECUTION__PHASE		0.285608	0.950320954
ENSG00000101109	STK4 subnetwork	0.28554691	0.950366888
ENSG00000103035	PSMD7 subnetwork	0.28587917	0.950847846
ENSG00000106125	FAM188B subnetwork	0.28610004	0.951466208
ENSG00000140350	ANP32A subnetwork	0.2863727	0.952290426
ENSG00000105258	POLR2I subnetwork	0.2864938	0.952530341
ENSG00000108798	ABI3 subnetwork	0.28663526	0.952563516
MP:0001684	abnormal axial mesoderm	0.28676128	0.95271167
ENSG00000197621	ENSG00000197621 subnetwork	0.28659803	0.952712912
MP:0003051	curly tail	0.286874	0.952939831
GO:0030532	small nuclear ribonucleoprotein complex	0.28707273	0.953144295
ENSG00000133027	PEMT subnetwork	0.28718113	0.953177869
ENSG00000170759	KIF5B subnetwork	0.28706527	0.953350869
GO:0043388	positive regulation of DNA binding	0.28756904	0.953459694
ENSG00000197063	MAFG subnetwork	0.28752469	0.953529009
GO:0051539	4 iron, 4 sulfur cluster binding	0.28750013	0.953678318
ENSG00000164244	PRRC1 subnetwork	0.28740639	0.95376
GO:0005802	trans-Golgi network	0.28749656	0.953896252
GO:0043296	apical junction complex	0.28783619	0.954166667
GO:0070741	response to interleukin-6	0.28797969	0.9544168
MP:0000165	abnormal long bone hypertrophic chondrocyte zone	0.28809275	0.954643998
ENSG00000169895	SYAP1 subnetwork	0.28833021	0.955179101
ENSG00000143437	ARNT subnetwork	0.28969906	0.956089525
GO:0045913	positive regulation of carbohydrate metabolic process	0.28965932	0.956136364
ENSG00000198924	DCLRE1A subnetwork	0.28940128	0.956211604
REACTOME_RESOLUTION_OF_ACTIVATED_PAK:2P34_BY_P		0.28954816	0.956265636
GO:0010676	positive regulation of cellular carbohydrate metabolic process	0.28965932	0.956353717
GO:0051797	regulation of hair follicle development	0.28937867	0.956360947
REACTOME_REGULATION_OF_ACTIVATED_PAK:2P34_BY_P		0.28952565	0.956449045
ENSG00000143569	UBAP2L subnetwork	0.28993108	0.956506927
GO:0043209	myelin sheath	0.28998935	0.956528156
GO:0008610	lipid biosynthetic process	0.28937147	0.956544503
REACTOME_TRIGLYCERIDE_BIOSYNTHESIS		0.28965659	0.956571169
MP:0000783	abnormal forebrain morphology	0.28990321	0.956656065
MP:0003420	delayed intramembranous bone ossification	0.28937047	0.956750911

REACTOME_AUTODEGRADATION_OF_THE_E3_UBIQUITIN_	0.29015974	0.956833144	
ENSG00000130713	EXOSC2 subnetwork	0.28932679	0.956877704
ENSG00000121067	SPOP subnetwork	0.28928378	0.956947608
ENSG00000102003	SYP subnetwork	0.28918614	0.957019143
GO:0000188	inactivation of MAPK activity	0.28924844	0.95705172
ENSG00000164104	HMGB2 subnetwork	0.28907977	0.957090743
ENSG00000115966	ATF2 subnetwork	0.28918399	0.957237292
ENSG00000099381	SETD1A subnetwork	0.28907719	0.957297605
REACTOME_METABOLISM_OF_LIPIDS_AND_LIPOPROTEINS	0.29055593	0.957327586	
ENSG00000111602	TIMELESS subnetwork	0.29049553	0.957329249
ENSG00000088205	DDX18 subnetwork	0.29043136	0.957399001
ENSG00000100453	GZMB subnetwork	0.29071728	0.957505669
ENSG00000175073	VCPIP1 subnetwork	0.28907629	0.957515967
ENSG00000182979	MTA1 subnetwork	0.29065369	0.957518712
REACTOME_SIGNALING_BY_FGFR	0.29110528	0.95830689	
MP:0006029	abnormal sclerocyte morphology	0.29107793	0.958422127
ENSG00000139625	MAP3K12 subnetwork	0.29146899	0.959483345
GO:0051186	cofactor metabolic process	0.29172446	0.9598641
GO:0006284	base-excision repair	0.29177316	0.959929801
GO:0006611	protein export from nucleus	0.29170556	0.959990938
GO:0019894	kinesin binding	0.29198276	0.960606747
GO:0016769	transferase activity, transferring nitrogenous groups	0.29206524	0.960694885
MP:0000420	ruffled hair	0.29249782	0.961021931
ENSG00000052723	SIKE1 subnetwork	0.29244709	0.96111488
GO:0051348	negative regulation of transferase activity	0.29237652	0.961140014
ENSG00000105855	ITGB8 subnetwork	0.29234283	0.961199095
ENSG00000183405	ENSG00000183405 subnetwork	0.29230668	0.961314777
ENSG00000145817	YIPF5 subnetwork	0.29293452	0.962206148
GO:0071013	catalytic step 2 spliceosome	0.29366825	0.962435175
GO:0045927	positive regulation of growth	0.29352001	0.962556408
GO:0005858	axonemal dynein complex	0.29361645	0.962632529
GO:0008203	cholesterol metabolic process	0.29366726	0.962652233
ENSG00000082516	GEMIN5 subnetwork	0.29379893	0.9626578
ENSG00000085721	RRN3 subnetwork	0.29348922	0.962672083
ENSG00000198231	DDX42 subnetwork	0.29330482	0.962759711
ENSG00000160808	MYL3 subnetwork	0.29325841	0.962796476
MP:0001354	increased aggression towards males	0.29348103	0.962866817
GO:0016323	basolateral plasma membrane	0.29322785	0.962889742
ENSG00000138758	SEPT11 subnetwork	0.29317294	0.962960452
REACTOME_GAMMA:CARBOXYLATION_TRANSPORT_AND_	0.2934592	0.96305035	
ENSG00000105248	CCDC94 subnetwork	0.29481415	0.963511691
ENSG00000136636	KCTD3 subnetwork	0.29456061	0.963681368
GO:0090312	positive regulation of protein deacetylation	0.29465578	0.963712036
ENSG00000164050	PLXNB1 subnetwork	0.294811	0.963728356
GO:0042384	cilium assembly	0.29414094	0.963736759
MP:0006345	absent second branchial arch	0.29473634	0.96374269
ENSG00000010244	ZNF207 subnetwork	0.29585138	0.963746359
MP:0008151	increased diameter of long bones	0.29455909	0.963887013
GO:0072503	cellular divalent inorganic cation homeostasis	0.29583731	0.963928732
ENSG00000136560	TANK subnetwork	0.29440363	0.963941441
ENSG00000132155	RAF1 subnetwork	0.29579843	0.964010312
ENSG00000117528	ABCD3 subnetwork	0.29454761	0.964058982
ENSG00000105011	ASF1B subnetwork	0.29430602	0.964139252

MP:0011109	partial lethality throughout fetal growth and development	0.29440028	0.964158594
ENSG00000177469	PTRF subnetwork	0.29579677	0.964226457
MP:0004045	abnormal cell cycle checkpoint function	0.29553651	0.964228007
ENSG00000054118	THRAP3 subnetwork	0.2945358	0.964253546
REACTOME_RAP1_SIGNALING	REACTOME_RAP1_SIGNALING	0.29565251	0.964359435
ENSG00000024048	UBR2 subnetwork	0.29643332	0.964370387
GO:0016410	N-acyltransferase activity	0.29578119	0.964397847
REACTOME_CASPASE:MEDIATED_CLEAVAGE_OF_CYTOSKE	REACTOME_CASPASE:MEDIATED_CLEAVAGE_OF_CYTOSKE	0.29552511	0.964444444
ENSG00000143815	LBR subnetwork	0.29651263	0.964445438
ENSG00000101246	ARFRP1 subnetwork	0.29547276	0.964492591
ENSG00000196535	MYO18A subnetwork	0.29615748	0.964512878
GO:0016887	ATPase activity	0.2960986	0.96453853
ENSG00000163349	HIPK1 subnetwork	0.29575379	0.964546882
GO:0071843	cellular component biogenesis at cellular level	0.29642873	0.964563758
MP:0000180	abnormal circulating cholesterol level	0.29538122	0.964588949
GO:0051896	regulation of protein kinase B signaling cascade	0.29631612	0.964637422
MP:0000558	abnormal tibia morphology	0.29546028	0.964653043
MP:0004362	cochlear hair cell degeneration	0.29525127	0.964696629
GO:2001252	positive regulation of chromosome organization	0.29628206	0.964696664
ENSG00000170522	ELOVL6 subnetwork	0.29519131	0.964699933
ENSG00000104823	ECH1 subnetwork	0.29534163	0.964715794
GO:0022613	ribonucleoprotein complex biogenesis	0.29641059	0.964723652
GO:0000289	nuclear-transcribed mRNA poly(A) tail shortening	0.29624916	0.964823108
MP:0003743	abnormal facial morphology	0.29684009	0.96560474
MP:0001786	skin edema	0.29697784	0.965664804
ENSG00000087269	NOP14 subnetwork	0.29695759	0.965780063
GO:0030695	GTPase regulator activity	0.29744452	0.965945102
ENSG00000185963	BICD2 subnetwork	0.29732697	0.965985711
MP:0004499	increased incidence of chemically-induced tumors	0.29730579	0.966112104
REACTOME_UBIQUITIN:DEPENDENT_DEGRADATION_OF_C	REACTOME_UBIQUITIN:DEPENDENT_DEGRADATION_OF_C	0.29726081	0.966138039
ENSG00000150760	DOCK1 subnetwork	0.29743362	0.966149554
REACTOME_UBIQUITIN:DEPENDENT_DEGRADATION_OF_C	REACTOME_UBIQUITIN:DEPENDENT_DEGRADATION_OF_C	0.29726081	0.966353887
ENSG00000113460	BRIX1 subnetwork	0.29765325	0.966398929
GO:0061039	ovum-producing ovary development	0.29778995	0.966514273
ENSG00000138069	RAB1A subnetwork	0.29778227	0.966685255
ENSG00000117751	PPP1R8 subnetwork	0.29798851	0.966740972
ENSG00000121753	BAI2 subnetwork	0.29817172	0.966822638
GO:2000116	regulation of cysteine-type endopeptidase activity	0.29810492	0.966882104
ENSG00000158402	CDC25C subnetwork	0.29797631	0.966911929
ENSG00000101868	POLA1 subnetwork	0.29854331	0.967776788
ENSG00000100028	SNRPD3 subnetwork	0.29934496	0.968188889
ENSG00000163714	U2SURP subnetwork	0.29932961	0.968270727
ENSG00000135372	NAT10 subnetwork	0.29895711	0.968283997
ENSG00000160916	ENSG00000160916 subnetwork	0.29909173	0.968331479
ENSG00000204434	ENSG00000204434 subnetwork	0.29891258	0.968343722
ENSG00000104221	BRF2 subnetwork	0.29903836	0.968402314
MP:0000928	incomplete cephalic closure	0.29924749	0.968412275
ENSG00000007264	MATK subnetwork	0.29932277	0.968463762
REACTOME_RNA_POLYMERASE_I_TRANSCRIPTION_TERMINATION	REACTOME_RNA_POLYMERASE_I_TRANSCRIPTION_TERMINATION	0.29888666	0.968470274
GO:0019059	initiation of viral infection	0.29882917	0.968518931
MP:0008261	arrest of male meiosis	0.29962216	0.968576505
ENSG00000175634	RPS6KB2 subnetwork	0.29924467	0.968616548
MP:0003648	abnormal radial glial cell morphology	0.29969193	0.968627886

ENSG00000105974	CAV1 subnetwork	0.29954899	0.968729171
GO:0032318	regulation of Ras GTPase activity	0.29961975	0.968780542
MP:0004527	abnormal outer hair cell stereociliary bundle morphology	0.29989787	0.969156493
ENSG00000155463	OXA1L subnetwork	0.30052419	0.970144124
ENSG00000141644	MBD1 subnetwork	0.30051995	0.970348193
ENSG00000145604	SKP2 subnetwork	0.30032892	0.970372836
GO:0020027	hemoglobin metabolic process	0.30047544	0.970452529
ENSG00000211896	ENSG00000211896 subnetwork	0.30071659	0.970527599
ENSG00000205517	RGL3 subnetwork	0.30101368	0.970564784
MP:0001270	distended abdomen	0.30046341	0.97066785
GO:0006875	cellular metal ion homeostasis	0.30114548	0.970710649
MP:0002705	dilated renal tubules	0.30099598	0.970746566
REACTOME_ER:PHAGOSOME_PATHWAY	REACTOME_ER:PHAGOSOME_PATHWAY	0.30124298	0.970816733
ENSG00000212915	ENSG00000212915 subnetwork	0.30112892	0.970881311
KEGG_CITRATE_CYCLE_TCA_CYCLE	KEGG_CITRATE_CYCLE_TCA_CYCLE	0.30088136	0.970888741
ENSG00000121481	RNF2 subnetwork	0.30097616	0.97091735
ENSG00000105063	PPP6R1 subnetwork	0.30141492	0.971166187
MP:0000352	decreased cell proliferation	0.30152121	0.971261062
ENSG00000001167	NFYA subnetwork	0.30201109	0.971564295
ENSG00000013293	SLC7A14 subnetwork	0.3019312	0.97158011
ENSG00000099960	SLC7A4 subnetwork	0.3019312	0.971794872
MP:0008140	podocyte foot process effacement	0.30189596	0.971888127
ENSG00000168959	GRM5 subnetwork	0.30217089	0.971924011
ENSG00000106633	GCK subnetwork	0.30224122	0.971930212
GO:0006446	regulation of translational initiation	0.3018675	0.971992481
GO:0004683	calmodulin-dependent protein kinase activity	0.30234527	0.97202473
GO:0010884	positive regulation of lipid storage	0.30245491	0.97218543
ENSG00000159352	PSMD4 subnetwork	0.30186579	0.972207476
ENSG00000132305	IMMT subnetwork	0.30257005	0.97234606
GO:0007140	male meiosis	0.30263306	0.972374228
MP:0008869	anovulation	0.30294586	0.973306861
MP:0001552	increased circulating triglyceride level	0.30315714	0.973875165
ENSG00000108264	TADA2A subnetwork	0.30337755	0.974355017
ENSG00000105287	PRKD2 subnetwork	0.30381323	0.97494491
MP:0010026	decreased liver cholesterol level	0.30368258	0.974966931
ENSG00000150907	FOXO1 subnetwork	0.30379894	0.975126736
GO:0071897	DNA biosynthetic process	0.30395072	0.975137696
GO:0016779	nucleotidyltransferase activity	0.304119	0.975192689
REACTOME_NEGATIVE_REGULATORS_OF_RIG:IMDA5_SIGNAL	REACTOME_NEGATIVE_REGULATORS_OF_RIG:IMDA5_SIGNAL	0.30421746	0.975297226
ENSG00000153989	NUS1 subnetwork	0.30411666	0.975407489
ENSG00000090382	LYZ subnetwork	0.30517242	0.975565313
MP:0008734	decreased susceptibility to endotoxin shock	0.30438292	0.975577812
GO:0030003	cellular cation homeostasis	0.30515268	0.975647782
ENSG00000174953	DHX36 subnetwork	0.30444075	0.975660211
GO:0019207	kinase regulator activity	0.30502433	0.975702988
ENSG00000130227	XPO7 subnetwork	0.30513454	0.975796178
GO:0070830	tight junction assembly	0.30500719	0.975873434
MP:0002231	abnormal primitive streak morphology	0.30460725	0.975984598
ENSG00000182446	NPLOC4 subnetwork	0.30496583	0.975989011
KEGG_ONE_CARBON_POOL_BY_FOLATE	KEGG_ONE_CARBON_POOL_BY_FOLATE	0.30476591	0.97602815
KEGG_GLYCOSYLPHOSPHATIDYLINOSITOL_GPI_ANCHOR_B	KEGG_GLYCOSYLPHOSPHATIDYLINOSITOL_GPI_ANCHOR_B	0.30494254	0.97611563
ENSG00000070756	PABPC1 subnetwork	0.30488196	0.976154354
ENSG00000120802	TMPO subnetwork	0.30473884	0.976187857

ENSG00000115350	POLE4 subnetwork	0.30577202	0.976633772
GO:0004298	threonine-type endopeptidase activity	0.30567349	0.976656428
MP:0010760	abnormal macrophage chemotaxis	0.30576712	0.976847993
GO:0070003	threonine-type peptidase activity	0.30567349	0.976870748
ENSG00000183091	NEB subnetwork	0.30616822	0.977021696
ENSG00000113194	FAF2 subnetwork	0.30566635	0.977063213
ENSG00000047849	MAP4 subnetwork	0.3060374	0.977121245
GO:0034341	response to interferon-gamma	0.30686883	0.977137546
ENSG00000103363	TCEB2 subnetwork	0.30614922	0.977181061
GO:0001889	liver development	0.30683607	0.977241907
REACTOME_ANTIGEN_PRESEN	REACTOME_ANTIGEN_PRESENTATION_FOLDING_ASSEMBL	0.30683579	0.977455699
ENSG00000162512	SDC3 subnetwork	0.30658454	0.977501642
GO:0080025	phosphatidylinositol-3,5-bisphosphate binding	0.30678278	0.977527352
ENSG00000182473	EXOC7 subnetwork	0.30635046	0.977530675
MP:0004592	small mandible	0.3065166	0.977562418
GO:0006978	DNA damage response, signal transduction by p53 class me	0.30669327	0.977648862
ENSG00000197694	SPTAN1 subnetwork	0.30649601	0.977688938
ENSG00000134255	CEPT1 subnetwork	0.30676553	0.977697527
ENSG00000174720	LARP7 subnetwork	0.30732399	0.977972028
REACTOME_HORMONE_LIGAN	REACTOME_HORMONE_LIGAND:BINDING_RECEPTORS	0.30739708	0.977987765
GO:0016235	aggresome	0.30726982	0.977989071
ENSG00000172939	OXSR1 subnetwork	0.30806659	0.978074575
ENSG00000130816	DNMT1 subnetwork	0.30813117	0.978079355
GO:0045080	positive regulation of chemokine biosynthetic process	0.30722982	0.978126366
GO:0060589	nucleoside-triphosphatase regulator activity	0.30758594	0.978128412
ENSG00000105193	RPS16 subnetwork	0.30752318	0.9781564
ENSG00000213780	GTF2H4 subnetwork	0.30804375	0.978222465
ENSG00000206476	ENSG00000206476 subnetwork	0.30804375	0.978435864
ENSG00000213764	ENSG00000213764 subnetwork	0.30786289	0.978552718
ENSG00000215476	ENSG00000215476 subnetwork	0.30804375	0.978649356
ENSG00000141570	CBX8 subnetwork	0.30801708	0.978764732
ENSG00000196459	TRAPPC2 subnetwork	0.30786289	0.978766376
ENSG00000149016	TUT1 subnetwork	0.30842753	0.978846992
ENSG00000100084	HIRA subnetwork	0.30863991	0.979309218
MP:0008586	disorganized photoreceptor outer segment	0.30880209	0.97954694
GO:0000932	cytoplasmic mRNA processing body	0.30877431	0.97962963
ENSG00000149532	CPSF7 subnetwork	0.30897758	0.980008711
GO:0005938	cell cortex	0.30912895	0.980187241
ENSG00000130826	DKC1 subnetwork	0.30941955	0.980761697
ENSG00000186867	QRFPR subnetwork	0.30939941	0.980953418
ENSG00000096746	HNRNPH3 subnetwork	0.30961138	0.981266319
GO:0017016	Ras GTPase binding	0.3107671	0.982935302
GO:0031929	TOR signaling cascade	0.31073924	0.983018458
ENSG00000155229	MMS19 subnetwork	0.31069758	0.983090791
REACTOME_METABOLISM_OF	REACTOME_METABOLISM_OF_AMINO_ACIDS_AND_DERIV	0.31096846	0.983116319
ENSG00000167005	NUDT21 subnetwork	0.31111493	0.98313449
ENSG00000118762	PKD2 subnetwork	0.3109204	0.983188626
REACTOME_CDK:MEDIATED_P	REACTOME_CDK:MEDIATED_PHOSPHORYLATION_AND_RE	0.31067927	0.983250054
GO:0071902	positive regulation of protein serine/threonine kinase activi	0.31110167	0.983304404
REACTOME_METABOLISM_OF	REACTOME_METABOLISM_OF_PROTEINS	0.31067432	0.983463711
GO:0009791	post-embryonic development	0.31131716	0.983495988
ENSG00000185513	L3MBTL1 subnetwork	0.3106402	0.983568789
GO:0021794	thalamus development	0.31145083	0.983597138

ENSG00000135069	PSAT1 subnetwork	0.31058522	0.983652174
ENSG00000197003	ENSG00000197003 subnetwork	0.31043397	0.983655937
ENSG00000042429	MED17 subnetwork	0.31053833	0.983681235
ENSG00000197369	ENSG00000197369 subnetwork	0.31043397	0.983869915
GO:0005547	phosphatidylinositol-3,4,5-trisphosphate binding	0.31203928	0.984372969
ENSG00000120438	TCP1 subnetwork	0.31196951	0.984380416
ENSG00000123136	DDX39A subnetwork	0.31229458	0.984408137
GO:0032233	positive regulation of actin filament bundle assembly	0.31185428	0.984500325
GO:0022037	metencephalon development	0.31190217	0.984514521
ENSG00000139219	COL2A1 subnetwork	0.31195598	0.984550379
ENSG00000167658	EEF2 subnetwork	0.31227505	0.98461039
ENSG00000053372	MRT04 subnetwork	0.31219268	0.984733651
ENSG00000163510	CWC22 subnetwork	0.3122629	0.98479108
GO:0031057	negative regulation of histone modification	0.31256963	0.985168758
MP:0011143	thick lung-associated mesenchyme	0.31265123	0.985280121
ENSG00000124217	MOCS3 subnetwork	0.31286078	0.985300476
REACTOME_DEGRADATION_OF_REACTOME_DEGRADATION_OF_BETA:CATENIN_BY_THE_D		0.31323109	0.985391924
MP:0002768	small adrenal glands	0.31283873	0.985416216
ENSG00000165271	NOL6 subnetwork	0.31280247	0.985532007
ENSG00000166337	TAF10 subnetwork	0.31334436	0.9855462
REACTOME_SIGNALING_BY_W_REACTOME_SIGNALING_BY_WNT		0.31323109	0.985604752
ENSG00000065154	OAT subnetwork	0.31317782	0.985666451
ENSG00000197451	HNRNPAB subnetwork	0.31343555	0.985743579
ENSG00000153187	HNRNPU subnetwork	0.31308211	0.985822347
ENSG00000153046	CDYL subnetwork	0.31315034	0.985836214
GO:0016888	endodeoxyribonuclease activity, producing 5'-phosphomon	0.31380314	0.985974558
MP:0004686	decreased length of long bones	0.31359064	0.98607035
GO:0010744	positive regulation of macrophage derived foam cell differe	0.31379711	0.986165624
MP:0004991	decreased bone strength	0.31373205	0.986194996
ENSG00000163877	SNIP1 subnetwork	0.3136984	0.986299892
MP:0002084	abnormal developmental patterning	0.31408809	0.986328378
ENSG00000133243	BTBD2 subnetwork	0.3140689	0.986476293
MP:0001533	abnormal skeleton physiology	0.31399996	0.986516491
MP:0000351	increased cell proliferation	0.31421932	0.986654459
MP:0000003	abnormal adipose tissue morphology	0.31447692	0.987037037
GO:0006497	protein lipidation	0.31440608	0.987077321
ENSG00000049541	RFC2 subnetwork	0.31466565	0.987481163
ENSG00000088833	NSFL1C subnetwork	0.31527256	0.988225806
GO:0035329	hippo signaling cascade	0.31498532	0.988355575
MP:0000249	abnormal blood vessel physiology	0.31526517	0.988406109
ENSG00000155660	PDIA4 subnetwork	0.31523618	0.988489673
ENSG00000187446	ENSG00000187446 subnetwork	0.31516867	0.988551754
ENSG00000064961	HMG20B subnetwork	0.31554689	0.988566516
GO:2000147	positive regulation of cell motility	0.3155999	0.98859046
MP:0005438	abnormal glycogen homeostasis	0.31552685	0.988703783
ENSG00000092853	CLSPN subnetwork	0.31550169	0.988830359
ENSG00000172795	DGP2 subnetwork	0.31586066	0.98943072
ENSG00000196961	AP2A1 subnetwork	0.31592778	0.989465206
MP:0010180	increased susceptibility to weight loss	0.31603505	0.989607043
ENSG00000112282	MED23 subnetwork	0.3160995	0.989662945
GO:0005080	protein kinase C binding	0.31625947	0.989933462
GO:0070008	serine-type exopeptidase activity	0.31643042	0.990085837
ENSG00000160633	SAFB subnetwork	0.31673661	0.99047619

MP:0000422	delayed hair appearance	0.31669426	0.990592148
ENSG00000185551	NR2F2 subnetwork	0.31692511	0.990960755
ENSG00000146729	GBAS subnetwork	0.31707362	0.991295026
ENSG00000143093	FAM40A subnetwork	0.31715007	0.9913612
ENSG00000140939	NOL3 subnetwork	0.31730163	0.991568459
ENSG00000145819	ARHGAP26 subnetwork	0.31724035	0.991577368
ENSG00000107796	ACTA2 subnetwork	0.3174252	0.991677378
ENSG00000169045	HNRNPH1 subnetwork	0.31752829	0.991796959
ENSG00000157240	FZD1 subnetwork	0.31895082	0.992723005
ENSG00000177602	GSG2 subnetwork	0.31889335	0.99280683
REACTOME_HOMOLOGOUS_R	REACTOME_HOMOLOGOUS_RECOMBINATION_REPAIR_OF	0.31823959	0.992823529
ENSG00000147050	KDM6A subnetwork	0.31787982	0.992826552
GO:0031227	intrinsic to endoplasmic reticulum membrane	0.31836557	0.992901433
GO:0006631	fatty acid metabolic process	0.31888178	0.992976089
ENSG00000139687	RB1 subnetwork	0.31801423	0.992977949
GO:0051131	chaperone-mediated protein complex assembly	0.31834404	0.993006843
REACTOME_HOMOLOGOUS_R	REACTOME_HOMOLOGOUS_RECOMBINATION_REPAIR	0.31823959	0.993035944
GO:0008831	dTDP-4-dehydrorhamnose reductase activity	0.31850775	0.993052587
ENSG00000205659	LIN52 subnetwork	0.31813601	0.993086473
ENSG00000134909	ARHGAP32 subnetwork	0.31821453	0.993130751
GO:0007099	centriole replication	0.31887859	0.99317745
ENSG00000100804	PSMB5 subnetwork	0.31975914	0.993281516
MP:0004231	abnormal calcium ion homeostasis	0.31877408	0.993292032
GO:0006360	transcription from RNA polymerase I promoter	0.31887688	0.993389577
GO:0019210	kinase inhibitor activity	0.31868768	0.993406711
ENSG00000100014	SPECC1L subnetwork	0.31974178	0.99341853
GO:0030130	clathrin coat of trans-Golgi network vesicle	0.31943326	0.993422175
ENSG00000136891	TEX10 subnetwork	0.3194906	0.993423577
ENSG00000141034	C17orf39 subnetwork	0.31874593	0.993440171
ENSG00000028137	TNFRSF1B subnetwork	0.31965548	0.99355423
ENSG00000198517	MAFK subnetwork	0.31971937	0.993555603
ENSG00000026025	VIM subnetwork	0.31935959	0.993579352
ENSG00000125970	RALY subnetwork	0.31962147	0.993616795
ENSG00000109065	NAT9 subnetwork	0.31942868	0.993623374
GO:0071560	cellular response to transforming growth factor beta stimu	0.31932279	0.993663324
ENSG00000086619	ERO1LB subnetwork	0.32039402	0.994087622
ENSG00000174444	RPL4 subnetwork	0.32014165	0.994114517
GO:0051480	cytosolic calcium ion homeostasis	0.32027535	0.99412766
ENSG00000122861	PLAU subnetwork	0.32033573	0.994128909
MP:0001690	failure of somite differentiation	0.32020973	0.994147691
MP:0005290	decreased oxygen consumption	0.32007713	0.994177134
MP:0008753	abnormal osteocyte morphology	0.32072021	0.994252019
MP:0001919	abnormal reproductive system physiology	0.32067916	0.994335813
ENSG00000139112	GABARAPL1 subnetwork	0.32065707	0.994515306
MP:0000808	abnormal hippocampus development	0.32064288	0.99465235
ENSG00000178952	TUFM subnetwork	0.32136455	0.994747453
ENSG00000173575	CHD2 subnetwork	0.32133912	0.99490554
GO:0033692	cellular polysaccharide biosynthetic process	0.32130008	0.994957537
ENSG00000168283	BMI1 subnetwork	0.32108354	0.995028681
GO:0004866	endopeptidase inhibitor activity	0.32123908	0.995062646
MP:0008489	slow postnatal weight gain	0.32168475	0.995206787
ENSG00000129988	LBP subnetwork	0.32121289	0.99521028
ENSG00000120696	KBTBD7 subnetwork	0.32158118	0.995342669

ENSG00000174177	CTU2 subnetwork	0.32167255	0.995386084
MP:0006060	increased cerebral infarction size	0.3218916	0.995716709
ENSG00000058091	CDK14 subnetwork	0.3220001	0.995887216
REACTOME_CA:DEPENDENT_E	REACTOME_CA:DEPENDENT_EVENTS	0.32386768	0.99630137
GO:0051053	negative regulation of DNA metabolic process	0.32381887	0.996384907
ENSG00000128272	ATF4 subnetwork	0.32380719	0.996573898
REACTOME_TAT:MEDIATED_EI	REACTOME_TAT:MEDIATED_ELONGATION_OF_THE_HIV:1_	0.32367686	0.996656823
GO:0014743	regulation of muscle hypertrophy	0.3237699	0.996689161
ENSG00000092439	TRPM7 subnetwork	0.32294263	0.996732234
ENSG00000124198	ARFGEF2 subnetwork	0.32243512	0.996822034
REACTOME_HIV:1_TRANSCRIP	REACTOME_HIV:1_TRANSCRIPTION_ELONGATION	0.32367686	0.996867089
MP:0002932	abnormal joint morphology	0.32240227	0.996884933
GO:0035272	exocrine system development	0.32293935	0.996900783
ENSG00000052749	RRP12 subnetwork	0.32236727	0.996979652
ENSG00000058799	YIPF1 subnetwork	0.32410709	0.996986936
MP:0010769	abnormal survival	0.32436929	0.997073684
REACTOME_FORMATION_OF_	REACTOME_FORMATION_OF_HIV:1_ELONGATION_COMPL	0.32367686	0.997077442
GO:0034062	RNA polymerase activity	0.32292696	0.997079983
ENSG00000162517	PEF1 subnetwork	0.32313555	0.997093023
ENSG00000100888	CHD8 subnetwork	0.32431291	0.997115182
ENSG00000065057	NTHL1 subnetwork	0.32419854	0.997135033
MP:0002048	increased lung adenoma incidence	0.32425961	0.997135636
ENSG00000104921	FCER2 subnetwork	0.32310354	0.997145274
REACTOME_INTEGRIN_CELL_S	REACTOME_INTEGRIN_CELL_SURFACE_INTERACTIONS	0.32460867	0.997253788
MP:0002089	abnormal postnatal growth/weight/body size	0.324506	0.997274258
REACTOME_P53:DEPENDENT_	REACTOME_P53:DEPENDENT_G1S_DNA_DAMAGE_CHECKI	0.32367343	0.997287885
GO:0003899	DNA-directed RNA polymerase activity	0.32292696	0.997291005
GO:0001919	regulation of receptor recycling	0.32342201	0.997327841
GO:0071559	response to transforming growth factor beta stimulus	0.32331882	0.997368977
ENSG00000148606	POLR3A subnetwork	0.32337549	0.997369533
GO:0006783	heme biosynthetic process	0.32327001	0.997442401
GO:0019370	leukotriene biosynthetic process	0.32291815	0.997470364
GO:0080135	regulation of cellular response to stress	0.32350725	0.997476241
ENSG00000112182	BACH2 subnetwork	0.32356608	0.997487331
ENSG00000028528	SNX1 subnetwork	0.32272861	0.997489939
REACTOME_P53:DEPENDENT_	REACTOME_P53:DEPENDENT_G1_DNA_DAMAGE_RESPON	0.32367343	0.997498417
GO:0043450	alkene biosynthetic process	0.32291815	0.997681558
GO:0071339	MLL1 complex	0.32286763	0.997712834
ENSG00000138297	TIMM23 subnetwork	0.32529332	0.998276949
ENSG00000128833	MYO5C subnetwork	0.32528691	0.998444725
ENSG00000134376	CRB1 subnetwork	0.32525574	0.998570528
GO:0043112	receptor metabolic process	0.32522209	0.99868587
MP:0004876	decreased mean systemic arterial blood pressure	0.32553362	0.998728992
GO:0009617	response to bacterium	0.32505519	0.998769198
GO:0046915	transition metal ion transmembrane transporter activity	0.32519703	0.998832808
ENSG00000170214	ADRA1B subnetwork	0.32514945	0.998885149
ENSG00000145216	FIP1L1 subnetwork	0.32563673	0.998918294
GO:0043325	phosphatidylinositol-3,4-bisphosphate binding	0.32579299	0.999034222
GO:0060491	regulation of cell projection assembly	0.32571669	0.999076018
ENSG00000068878	PSME4 subnetwork	0.32671642	0.999340452
ENSG00000168148	HIST3H3 subnetwork	0.32680789	0.999361524
ENSG00000106105	GARS subnetwork	0.32657786	0.999403016
ENSG00000197961	ZNF121 subnetwork	0.32666778	0.999403141

ENSG00000072133	RPS6KA6 subnetwork	0.32594265	0.999412259
ENSG00000138709	LARP1B subnetwork	0.3265555	0.999497172
ENSG00000082014	SMARCD3 subnetwork	0.32653269	0.999612322
MP:0004521	abnormal cochlear hair cell stereociliary bundle morpholog	0.32647468	0.99971704
MP:0006378	abnormal spermatogonia morphology	0.32704061	0.999780289
GO:0004467	long-chain fatty acid-CoA ligase activity	0.32696649	0.999811637
ENSG00000172613	RAD9A subnetwork	0.32643698	0.999832285
GO:0043189	H4/H2A histone acetyltransferase complex	0.32641489	0.999884672
GO:0015932	nucleobase-containing compound transmembrane transpo	0.32637053	0.999958054
MP:0002906	increased susceptibility to pharmacologically induced seizu	1	1
GO:0007200	phospholipase C-activating G-protein coupled receptor sign	1	1.000069152
ENSG00000197265	GTF2E2 subnetwork	0.32632139	1.000073421
ENSG00000101745	ANKRD12 subnetwork	0.32627596	1.000094419
MP:0004784	abnormal anterior cardinal vein morphology	0.32620597	1.000094439
REACTOME_GABA_RECEPTOR_	REACTOME_GABA_RECEPTOR_ACTIVATION	1	1.000138313
MP:0008593	increased circulating interleukin-10 level	0.32740504	1.000177713
MP:0003635	abnormal synaptic transmission	0.99999999	1.000207483
REACTOME_METABOLISM_OF_	REACTOME_METABOLISM_OF_STEROID_HORMONES_AND	0.32738138	1.000240485
GO:0034654	nucleobase-containing compound biosynthetic process	0.99999997	1.000276663
MP:0002938	white spotting	0.99999997	1.000345853
GO:0070064	proline-rich region binding	0.32842517	1.000375235
MP:0002929	abnormal bile duct development	0.32753398	1.000397157
MP:0003270	intestinal obstruction	0.99999996	1.000415053
ENSG00000182004	SNRPE subnetwork	0.32836166	1.000437865
KEGG_HOMOLOGOUS_RECOM	KEGG_HOMOLOGOUS_RECOMBINATION	0.32737853	1.000439239
KEGG_UBIQUITIN_MEDIATED_	KEGG_UBIQUITIN_MEDIATED_PROTEOLYSIS	0.32829484	1.000458811
GO:0019935	cyclic-nucleotide-mediated signaling	0.99999995	1.000484262
ENSG00000010030	ETV7 subnetwork	0.32734413	1.000512552
REACTOME_CLASS_I_MHC_ME	REACTOME_CLASS_I_MHC_MEDIATED_ANTIGEN_PROCESS	0.32824167	1.000542345
GO:0001012	RNA polymerase II regulatory region DNA binding	0.32796324	1.000553351
MP:0001322	abnormal iris morphology	0.99999994	1.00055348
GO:0071478	cellular response to radiation	0.32774705	1.000564145
GO:0005583	fibrillar collagen	0.32791211	1.000605681
GO:0048521	negative regulation of behavior	0.99999993	1.000622708
GO:0002209	behavioral defense response	0.99999993	1.000691946
MP:0009011	prolonged diestrus	0.32786886	1.000699812
GO:0042623	ATPase activity, coupled	0.32816046	1.000709516
ENSG00000099875	MKNK2 subnetwork	0.3288485	1.000718451
GO:0032602	chemokine production	0.32823176	1.0007198
ENSG00000087460	GNAS subnetwork	0.99999992	1.000761193
ENSG00000196411	EPHB4 subnetwork	0.32773939	1.0007628
GO:0006110	regulation of glycolysis	0.32865446	1.00080225
GO:0009165	nucleotide biosynthetic process	0.99999989	1.00083045
ENSG00000055044	NOP58 subnetwork	0.32883034	1.000895647
ENSG00000169242	EFNA1 subnetwork	0.99999984	1.000899716
ENSG00000168002	POLR2G subnetwork	0.32874613	1.00090625
ENSG00000142230	SAE1 subnetwork	0.3281585	1.000907952
ENSG00000156467	UQCRB subnetwork	0.32862539	1.000937891
GO:0071347	cellular response to interleukin-1	0.32812112	1.000949896
GO:0072522	purine-containing compound biosynthetic process	0.99999983	1.000968992
GO:0008038	neuron recognition	0.99999981	1.001038278
GO:0097060	synaptic membrane	0.99999973	1.001107573
ENSG00000204351	SKIV2L subnetwork	0.32961507	1.001121961

ENSG00000125124	BBS2 subnetwork	0.32907798	1.001165695
GO:0030425	dendrite	0.9999997	1.001176878
ENSG00000163069	SGCB subnetwork	0.99999968	1.001242731
MP:0005553	increased circulating creatinine level	0.32975156	1.001277524
GO:0060113	inner ear receptor cell differentiation	0.99999967	1.001312054
ENSG00000206267	ENSG00000206267 subnetwork	0.32961507	1.001330008
GO:0001890	placenta development	0.32906391	1.001353321
MP:0000951	sporadic seizures	0.9999996	1.001377925
ENSG00000127666	TICAM1 subnetwork	0.32920451	1.001425598
MP:0008911	induced hyperactivity	0.99999952	1.001443806
GO:0007187	G-protein coupled receptor signaling pathway, coupled to c	0.99999952	1.001513158
ENSG00000138326	RPS24 subnetwork	0.32960833	1.001538142
GO:0048169	regulation of long-term neuronal synaptic plasticity	0.99999951	1.001579057
ENSG00000214265	SNURF subnetwork	0.32955143	1.001600832
ENSG00000072849	DERL2 subnetwork	0.32952471	1.001642753
GO:0034702	ion channel complex	0.99999951	1.001648428
ENSG00000206297	TAP1 subnetwork	0.32945601	1.001663894
GO:0006813	potassium ion transport	0.9999995	1.001717808
REACTOME_LIGAND:GATED_IC	REACTOME_LIGAND:GATED_ION_CHANNEL_TRANSPORT	0.9999994	1.001787199
ENSG00000214485	ENSG00000214485 subnetwork	0.32999299	1.001796469
GO:0001662	behavioral fear response	0.99999933	1.001846207
ENSG00000206233	ENSG00000206233 subnetwork	0.32945601	1.00187227
GO:0019933	cAMP-mediated signaling	0.99999922	1.001912152
GO:0007501	mesodermal cell fate specification	0.99999917	1.00198157
GO:0034703	cation channel complex	0.99999916	1.002050998
ENSG00000168394	TAP1 subnetwork	0.32945601	1.002080732
GO:0005249	voltage-gated potassium channel activity	0.99999912	1.002120435
GO:0016247	channel regulator activity	0.99999895	1.002186417
ENSG00000102103	PQBP1 subnetwork	0.33022823	1.002232143
GO:0042490	mechanoreceptor differentiation	0.99999891	1.002255874
GO:0007156	homophilic cell adhesion	0.99999887	1.00232534
ENSG00000167986	DDB1 subnetwork	0.33052086	1.00235526
GO:0006164	purine nucleotide biosynthetic process	0.99999886	1.002394815
GO:0030176	integral to endoplasmic reticulum membrane	0.33144857	1.002451893
ENSG00000167083	GNGT2 subnetwork	0.99999879	1.002464301
ENSG00000112079	STK38 subnetwork	0.33041129	1.002480797
REACTOME_INWARDLY_RECTII	REACTOME_INWARDLY_RECTIFYING_K_CHANNELS	0.99999858	1.002526863
ENSG00000154767	XPC subnetwork	0.33050535	1.002542549
GO:0016572	histone phosphorylation	0.33155906	1.002544477
GO:0009187	cyclic nucleotide metabolic process	0.99999855	1.002596367
MP:0004768	abnormal axonal transport	0.33143501	1.002597268
GO:0031346	positive regulation of cell projection organization	0.33068751	1.002603734
ENSG00000090861	AARS subnetwork	0.33164244	1.00262668
GO:0031279	regulation of cyclase activity	0.99999851	1.002665881
GO:0050732	negative regulation of peptidyl-tyrosine phosphorylation	0.33133369	1.002692069
GO:0070646	protein modification by small protein removal	0.33141561	1.002711654
GO:0005254	chloride channel activity	0.99999837	1.002731937
GO:0009190	cyclic nucleotide biosynthetic process	0.99999816	1.00280147
ENSG00000106144	CASP2 subnetwork	0.33084269	1.00281062
GO:0050856	regulation of T cell receptor signaling pathway	0.33140065	1.002846791
ENSG00000206266	ENSG00000206266 subnetwork	0.33131617	1.002868683
ENSG00000108823	SGCA subnetwork	0.99999804	1.002871012
ENSG00000162337	LRP5 subnetwork	0.99999786	1.002933629

GO:0005253	anion channel activity	0.99999783	1.00300319
GO:0090068	positive regulation of cell cycle process	0.33181918	1.003050041
GO:0060914	heart formation	0.99999781	1.003072761
ENSG00000206346	DOM3Z subnetwork	0.33131617	1.003076445
ENSG00000167553	TUBA1C subnetwork	0.33098533	1.003079635
GO:0030165	PDZ domain binding	0.99999776	1.003142342
ENSG00000173848	NET1 subnetwork	0.33122949	1.003202073
GO:0022843	voltage-gated cation channel activity	0.99999768	1.003211932
GO:0043092	L-amino acid import	0.99999748	1.003274594
ENSG00000204348	DOM3Z subnetwork	0.33131617	1.003284293
GO:0051339	regulation of lyase activity	0.99999724	1.003337265
ENSG00000116754	SRSF11 subnetwork	0.331956	1.003349183
ENSG00000112715	VEGFA subnetwork	0.33122131	1.003389303
GO:0046068	cGMP metabolic process	0.9999972	1.003406883
ENSG00000111266	DUSP16 subnetwork	0.33115957	1.003431474
MP:0002940	variable body spotting	0.99999704	1.003473041
GO:0022836	gated channel activity	0.99999596	1.00352533
MP:0001360	abnormal social investigation	0.99999595	1.003594975
GO:0005996	monosaccharide metabolic process	0.33211799	1.003658537
MP:0001469	abnormal contextual conditioning behavior	0.99999576	1.003664631
GO:0005244	voltage-gated ion channel activity	0.99999566	1.003734296
ENSG00000099797	TECR subnetwork	0.33221142	1.003750775
GO:0022832	voltage-gated channel activity	0.99999566	1.003803971
ENSG00000070961	ATP2B1 subnetwork	0.33237551	1.003831853
ENSG00000114491	UMPS subnetwork	0.33230944	1.003863636
MP:0008027	abnormal spinal cord white matter morphology	0.9999956	1.003873655
GO:0042734	presynaptic membrane	0.99999546	1.003943349
GO:0046058	cAMP metabolic process	0.99999544	1.004013053
MP:0001961	abnormal reflex	0.99999528	1.004082766
GO:0045211	postsynaptic membrane	0.99999504	1.004152489
GO:0032279	asymmetric synapse	0.999995	1.00421875
MP:0008414	abnormal spatial reference memory	0.9999948	1.004288492
MP:0003604	single kidney	0.9999947	1.004358244
GO:0043197	dendritic spine	0.99999466	1.004428006
GO:0044309	neuron spine	0.99999466	1.004497777
GO:0034707	chloride channel complex	0.99999434	1.004564085
GO:0007340	acrosome reaction	0.99999423	1.004633875
GO:0051932	synaptic transmission, GABAergic	0.99999421	1.004703675
GO:0045761	regulation of adenylate cyclase activity	0.99999402	1.004773485
GO:0051969	regulation of transmission of nerve impulse	0.99999379	1.004843305
ENSG00000188064	WNT7B subnetwork	0.99999332	1.004913134
GO:0032228	regulation of synaptic transmission, GABAergic	0.99999245	1.004982973
GO:0007494	midgut development	0.99999238	1.005052822
GO:0030799	regulation of cyclic nucleotide metabolic process	0.99999193	1.005112254
GO:0015459	potassium channel regulator activity	0.99999139	1.005178646
MP:0002272	abnormal nervous system electrophysiology	0.99999127	1.005248523
GO:0048168	regulation of neuronal synaptic plasticity	0.99999106	1.005318409
GO:0006171	cAMP biosynthetic process	0.99999104	1.005388306
MP:0003463	abnormal single cell response	0.99999078	1.005458212
MP:0004618	thoracic vertebral transformation	0.33306286	1.005461491
MP:0003789	osteosarcoma	0.33298963	1.005462619
MP:0001650	abnormal seizure response to electrical stimulation	0.99999045	1.005528127
ENSG00000138346	DNA2 subnetwork	0.33312651	1.00554294

GO:0009124	nucleoside monophosphate biosynthetic process	0.99999023	1.005594576
GO:0043090	amino acid import	0.99999005	1.005664511
MP:0001900	impaired synaptic plasticity	0.9999893	1.005730978
GO:0048167	regulation of synaptic plasticity	0.99998899	1.005800932
GO:0034705	potassium channel complex	0.99998875	1.005870896
GO:0008076	voltage-gated potassium channel complex	0.99998875	1.00594087
GO:0003211	cardiac ventricle formation	0.99998761	1.006003896
ENSG00000102977	ACD subnetwork	0.33425997	1.006040338
REACTOME_ACTIVATION_OF_G_PROTEIN_GATED_POTASSIUM_CHANNELS	REACTOME_ACTIVATION_OF_G_PROTEIN_GATED_POTASSIUM_CHANNELS	0.99998712	1.006073889
REACTOME_INHIBITION_OF_VOLTAGE_GATED_CAC2_CHANNEL	REACTOME_INHIBITION_OF_VOLTAGE_GATED_CAC2_CHANNEL	0.99998712	1.006143891
MP:0005157	holoprosencephaly	0.33424685	1.006165089
REACTOME_G_PROTEIN_GATE	REACTOME_G_PROTEIN_GATED_POTASSIUM_CHANNELS	0.99998712	1.006213903
GO:0007212	dopamine receptor signaling pathway	0.99998463	1.006266527
ENSG00000066044	ELAVL1 subnetwork	0.33443314	1.006316872
GO:0014048	regulation of glutamate secretion	0.99998458	1.006336558
ENSG00000138018	EPT1 subnetwork	0.3342397	1.006361952
GO:0001959	regulation of cytokine-mediated signaling pathway	0.33458619	1.006396545
GO:0003207	cardiac chamber formation	0.99998427	1.006406598
REACTOME_RNA_POLYMERASE_II_TRANSCRIPTION_ELONGATION	REACTOME_RNA_POLYMERASE_II_TRANSCRIPTION_ELONGATION	0.33418861	1.006476524
GO:0051971	positive regulation of transmission of nerve impulse	0.99998424	1.006476648
ENSG00000184967	NOC4L subnetwork	0.33455763	1.00650072
ENSG00000158955	WNT9B subnetwork	0.9999841	1.006546708
ENSG00000100150	DEPDC5 subnetwork	0.33388409	1.006608247
ENSG00000061492	WNT8A subnetwork	0.9999841	1.006616777
GO:0035094	response to nicotine	0.33473529	1.006621427
REACTOME_FORMATION_OF_RNA_POLYMERASE_II_TRANSCRIPTION_ELONGATION_COMPLEX	REACTOME_FORMATION_OF_RNA_POLYMERASE_II_TRANSCRIPTION_ELONGATION_COMPLEX	0.33418861	1.006683831
ENSG00000075290	WNT8B subnetwork	0.9999841	1.006686856
KEGG_GLIOMA	KEGG_GLIOMA	0.33384498	1.006702413
ENSG00000143816	WNT9A subnetwork	0.9999841	1.006756945
ENSG00000105989	WNT2 subnetwork	0.9999841	1.006827044
MP:0005181	decreased circulating estradiol level	0.33362673	1.006830376
GO:0019395	fatty acid oxidation	0.33357221	1.006842105
ENSG00000141384	TAF4B subnetwork	0.33380961	1.006858498
REACTOME_FORMATION_OF_HIV_1_TRANSCRIPTION_COMPLEX	REACTOME_FORMATION_OF_HIV_1_TRANSCRIPTION_COMPLEX	0.33418861	1.006891224
ENSG00000169884	WNT10B subnetwork	0.9999841	1.006897152
ENSG00000101412	E2F1 subnetwork	0.33496039	1.006937307
ENSG00000111640	GAPDH subnetwork	0.33492737	1.006959293
ENSG00000085741	WNT11 subnetwork	0.9999841	1.00696727
ENSG00000135925	WNT10A subnetwork	0.9999841	1.007037398
ENSG00000166947	EPB42 subnetwork	0.33417019	1.007047187
GO:0051047	positive regulation of secretion	0.33380764	1.007066227
GO:0019932	second-messenger-mediated signaling	0.99998357	1.007107536
MP:0000940	abnormal motor neuron innervation	0.99998277	1.007170718
ENSG00000143748	NVL subnetwork	0.33415268	1.007223825
GO:0007194	negative regulation of adenylate cyclase activity	0.99998244	1.007240875
GO:0006958	complement activation, classical pathway	0.33526143	1.007261709
ENSG00000143977	SNRPG subnetwork	0.33520794	1.007304294
GO:0005871	kinesin complex	0.33411863	1.007307772
GO:0031280	negative regulation of cyclase activity	0.99998244	1.007311041
ENSG00000102096	PIM2 subnetwork	0.33516407	1.007377723
MP:0000029	abnormal malleus morphology	0.99998231	1.007381218
MP:0006074	abnormal retinal rod bipolar cell morphology	0.99998189	1.007451404
ENSG00000114251	WNT5A subnetwork	0.99998142	1.0075216

GO:0051313	attachment of spindle microtubules to chromosome	0.99998126	1.007591805
GO:0050804	regulation of synaptic transmission	0.99998115	1.007662021
GO:0007188	adenylate cyclase-modulating G-protein coupled receptor s	0.99998084	1.007732246
GO:0030814	regulation of cAMP metabolic process	0.99998055	1.007802481
REACTOME_POST:CHAPERONII	REACTOME_POST:CHAPERONIN_TUBULIN_FOLDING_PATH	0.335484	1.007835284
GO:0017147	Wnt-protein binding	0.99997975	1.007869241
ENSG00000149295	DRD2 subnetwork	0.99997899	1.007939495
REACTOME_NEURONAL_SYSTE	REACTOME_NEURONAL_SYSTEM	0.99997833	1.008002788
GO:0051350	negative regulation of lyase activity	0.99997797	1.008073062
ENSG00000176884	GRIN1 subnetwork	0.99997779	1.008143345
ENSG00000022355	GABRA1 subnetwork	0.99997777	1.008213638
MP:0002572	abnormal emotion/affect behavior	0.99997649	1.008280455
GO:0030823	regulation of cGMP metabolic process	0.99997558	1.008350767
MP:0004056	abnormal myocardium compact layer morphology	0.33570441	1.008367556
ENSG00000143771	CNIH4 subnetwork	0.3357796	1.008406898
GO:0031644	regulation of neurological system process	0.99997545	1.008421089
GO:0043266	regulation of potassium ion transport	0.99997485	1.00848096
MP:0008944	decreased sensitivity to induced cell death	0.3365149	1.0085126
MP:0005591	decreased vasodilation	0.99997477	1.008547813
ENSG00000119285	HEATR1 subnetwork	0.33642399	1.008608321
GO:0005267	potassium channel activity	0.9999741	1.008618164
GO:0008287	protein serine/threonine phosphatase complex	0.33597043	1.008618921
ENSG00000164754	RAD21 subnetwork	0.336496	1.008637295
ENSG00000185057	ENSG00000185057 subnetwork	0.33637773	1.008651087
ENSG00000100836	PABPN1 subnetwork	0.33593616	1.008661741
GO:0007413	axonal fasciculation	0.99997399	1.008688525
GO:0051569	regulation of histone H3-K4 methylation	0.33604865	1.008688962
GO:0045947	negative regulation of translational initiation	0.33625203	1.008746924
MP:0000564	syndactyly	0.99997363	1.008758895
GO:0001882	nucleoside binding	0.33619249	1.008810256
GO:0009263	deoxyribonucleotide biosynthetic process	0.99997247	1.008825787
ENSG00000186468	RPS23 subnetwork	0.33637217	1.0088374
GO:0001958	endochondral ossification	0.99997118	1.008896176
GO:0031646	positive regulation of neurological system process	0.99997111	1.008966576
ENSG00000158445	KCNB1 subnetwork	0.9999711	1.009036985
KEGG_COLORECTAL_CANCER	KEGG_COLORECTAL_CANCER	0.33676308	1.009063908
MP:0004994	abnormal brain wave pattern	0.99997045	1.009103915
GO:0030802	regulation of cyclic nucleotide biosynthetic process	0.99997035	1.009174344
GO:0030808	regulation of nucleotide biosynthetic process	0.99997035	1.009244783
GO:0006182	cGMP biosynthetic process	0.9999695	1.009315231
GO:0051966	regulation of synaptic transmission, glutamatergic	0.99996916	1.009385689
ENSG00000197915	HRNR subnetwork	0.33688761	1.009389719
GO:0006458	'de novo' protein folding	0.33700529	1.009428747
GO:0060627	regulation of vesicle-mediated transport	0.99996893	1.009452667
GO:0007628	adult walking behavior	0.9999689	1.009523145
MP:0001363	increased anxiety-related response	0.99996867	1.009593632
MP:0008725	enlarged heart atrium	0.99996739	1.00966413
GO:0045686	negative regulation of glial cell differentiation	0.99996696	1.009731145
GO:0030817	regulation of cAMP biosynthetic process	0.99996446	1.00979817
ENSG00000115596	WNT6 subnetwork	0.99996438	1.009868697
GO:0009123	nucleoside monophosphate metabolic process	0.99996418	1.009939233
GO:0043021	ribonucleoprotein complex binding	0.33739328	1.009965214
GO:0042474	middle ear morphogenesis	0.99996206	1.010002794

ENSG00000102804	TSC22D1 subnetwork	0.33760578	1.010010225
GO:0004707	MAP kinase activity	0.3372637	1.010030706
GO:0004175	endopeptidase activity	0.33734876	1.01004912
GO:0048016	inositol phosphate-mediated signaling	0.99996078	1.010069857
KEGG_FATTY_ACID_METABOLISM	KEGG_FATTY_ACID_METABOLISM	0.33768736	1.01012063
GO:0048839	inner ear development	0.9999599	1.010140422
ENSG00000101343	CRNKL1 subnetwork	0.33758859	1.010186132
GO:0048638	regulation of developmental growth	0.9999593	1.01020401
GO:0015267	channel activity	0.99995841	1.010271101
GO:0022803	passive transmembrane transporter activity	0.99995841	1.010341695
ENSG00000154447	SH3RF1 subnetwork	0.33757879	1.010362111
GO:0043583	ear development	0.9999583	1.010412299
GO:0030162	regulation of proteolysis	0.33842422	1.010477454
MP:0000049	abnormal middle ear morphology	0.99995816	1.010482913
REACTOME_ACTIVATION_OF_GABAB_RECEPTORS	REACTOME_ACTIVATION_OF_GABAB_RECEPTORS	0.99995798	1.010553536
REACTOME_REGULATION_OF_LIPID_METABOLISM_BY_PEP	REACTOME_REGULATION_OF_LIPID_METABOLISM_BY_PEP	0.33838187	1.010602041
REACTOME_GABA_B_RECEPTOR_ACTIVATION	REACTOME_GABA_B_RECEPTOR_ACTIVATION	0.99995798	1.01062417
GO:0045821	positive regulation of glycolysis	0.33824759	1.010677828
ENSG00000153107	ANAPC1 subnetwork	0.99995792	1.010694813
GO:0017156	calcium ion-dependent exocytosis	0.99995735	1.010765467
ENSG00000166086	JAM3 subnetwork	0.33836028	1.01077771
ENSG00000137656	BUD13 subnetwork	0.33870149	1.010830104
GO:0043084	penile erection	0.99995633	1.010832634
MP:0008057	abnormal DNA replication	0.3382432	1.010874004
MP:0009747	impaired behavioral response to xenobiotic	0.99995565	1.010899811
ENSG00000158710	TAGLN2 subnetwork	0.33801739	1.010954425
GO:0001755	neural crest cell migration	0.99995558	1.010970494
ENSG00000118640	VAMP8 subnetwork	0.33869166	1.010975112
ENSG00000105364	MRPL4 subnetwork	0.33814232	1.010990807
GO:0022838	substrate-specific channel activity	0.99995435	1.011030697
ENSG00000135945	REV1 subnetwork	0.33823078	1.011039624
ENSG00000154764	WNT7A subnetwork	0.99995389	1.011101399
MP:0002691	small stomach	0.33813744	1.011105435
ENSG00000085231	TAF9 subnetwork	0.33885973	1.011143964
ENSG00000182973	CNOT10 subnetwork	0.33801371	1.011150859
MP:0005292	improved glucose tolerance	0.33892995	1.011151886
ENSG00000172020	GAP43 subnetwork	0.99995134	1.01116162
ENSG00000108679	LGALS3BP subnetwork	0.33930016	1.011191446
REACTOME_TRANSPORT_OF_GLUCOSE_AND_OTHER_SUGARS	REACTOME_TRANSPORT_OF_GLUCOSE_AND_OTHER_SUGARS	0.33906914	1.011208478
MP:0002206	abnormal CNS synaptic transmission	0.99995118	1.01123234
REACTOME_AKT_PHOSPHORYLATES_TARGETS_IN_THE_CYTOSOL	REACTOME_AKT_PHOSPHORYLATES_TARGETS_IN_THE_CYTOSOL	0.33940638	1.011240073
ENSG00000122406	RPL5 subnetwork	0.33924304	1.011275209
ENSG00000137497	NUMA1 subnetwork	0.33902527	1.011282104
GO:0031281	positive regulation of cyclase activity	0.99995084	1.011303071
GO:0045762	positive regulation of adenylate cyclase activity	0.99995084	1.011373811
MP:0003172	abnormal lysosome physiology	0.33921516	1.011389568
GO:0030815	negative regulation of cAMP metabolic process	0.99995049	1.011444561
GO:0030818	negative regulation of cAMP biosynthetic process	0.99995049	1.011515321
GO:0033119	negative regulation of RNA splicing	0.99994962	1.011582593
ENSG00000185745	IFIT1 subnetwork	0.3396117	1.011634772
MP:0002826	tonic seizures	0.99994946	1.011649874
GO:0005216	ion channel activity	0.99994687	1.011699671
REACTOME_APCCDC20_MEDIATED_DEGRADATION_OF_C	REACTOME_APCCDC20_MEDIATED_DEGRADATION_OF_C	0.99994662	1.011770469

GO:0050686	negative regulation of mRNA processing	0.99994636	1.011841277
ENSG00000100321	SYNGR1 subnetwork	0.99994556	1.011908595
GO:0035267	NuA4 histone acetyltransferase complex	0.33991526	1.01197355
REACTOME_ION_CHANNEL_TRANSPORT	REACTOME_ION_CHANNEL_TRANSPORT	0.999945	1.011979422
GO:0042471	ear morphogenesis	0.9999441	1.012050259
ENSG00000137413	TAF8 subnetwork	0.33989354	1.012098087
GO:0007218	neuropeptide signaling pathway	0.99994386	1.012121106
ENSG00000183684	ALYREF subnetwork	0.34020956	1.012172056
GO:0044247	cellular polysaccharide catabolic process	0.99994146	1.012188463
REACTOME_RNA_POLYMERASE_I_PROMOTER_CLEARANCE	REACTOME_RNA_POLYMERASE_I_PROMOTER_CLEARANCE	0.3398529	1.012212497
ENSG00000151693	ASAP2 subnetwork	0.34012805	1.012235557
GO:0009251	glucan catabolic process	0.99994146	1.012259329
ENSG00000108379	WNT3 subnetwork	0.99994136	1.012330206
GO:0044456	synapse part	0.99993821	1.012383587
MP:0000373	belly spot	0.99993591	1.012447479
GO:0007190	activation of adenylate cyclase activity	0.99993365	1.012518384
GO:0002090	regulation of receptor internalization	0.99993252	1.012585796
REACTOME_TRANSMISSION_ACROSS_CHEMICAL_SYNAPSE	REACTOME_TRANSMISSION_ACROSS_CHEMICAL_SYNAPSE	0.99993149	1.012649716
ENSG00000134245	WNT2B subnetwork	0.99993097	1.01272065
GO:0007215	glutamate receptor signaling pathway	0.99993021	1.012788091
MP:0002573	behavioral despair	0.99993006	1.012859044
ENSG00000161204	ABCF3 subnetwork	0.34189389	1.012887224
MP:0000087	absent mandible	0.99992807	1.012919498
GO:0071479	cellular response to ionizing radiation	0.34086269	1.012959577
REACTOME_VIF:MEDIATED_DEGRADATION_OF_APOBEC3G	REACTOME_VIF:MEDIATED_DEGRADATION_OF_APOBEC3G	0.34096389	1.012987409
GO:0061008	hepaticobiliary system development	0.34056006	1.012990445
GO:0048712	negative regulation of astrocyte differentiation	0.99992802	1.012990471
ENSG00000119689	DLST subnetwork	0.34068106	1.01304878
ENSG00000164985	PSIP1 subnetwork	0.34188264	1.013051843
GO:0042596	fear response	0.99992654	1.013054446
GO:0006919	activation of cysteine-type endopeptidase activity involved	0.34126728	1.013058036
KEGG_P53_SIGNALING_PATHWAY	KEGG_P53_SIGNALING_PATHWAY	0.34052358	1.01307442
GO:0090023	positive regulation of neutrophil chemotaxis	0.34118022	1.013080982
GO:0000077	DNA damage checkpoint	0.3408402	1.013124746
GO:0015079	potassium ion transmembrane transporter activity	0.99992572	1.013125438
ENSG00000117480	FAAH subnetwork	0.34135399	1.013126395
MP:0001696	failure to gastrulate	0.34106994	1.013137056
GO:0014047	glutamate secretion	0.99992555	1.01319644
MP:0004617	sacral vertebral transformation	0.34216243	1.013205829
MP:0000286	abnormal mitral valve morphology	0.34081735	1.013239179
ENSG00000008952	SEC62 subnetwork	0.34187612	1.013257039
GO:0007610	behavior	0.99992221	1.013263947
ENSG00000143466	IKBKE subnetwork	0.34117712	1.013266342
ENSG00000214026	MRPL23 subnetwork	0.3421123	1.013269231
MP:0004188	delayed embryo turning	0.34166237	1.013275233
ENSG00000185630	PBX1 subnetwork	0.34174731	1.013333333
ENSG00000174804	FZD4 subnetwork	0.3414598	1.013334009
GO:0043587	tongue morphogenesis	0.99992164	1.013334969
REACTOME_GABA_A_RECEPTOR_ACTIVATION	REACTOME_GABA_A_RECEPTOR_ACTIVATION	0.9999211	1.013406
GO:0055065	metal ion homeostasis	0.34184833	1.013411669
ENSG00000119203	CPSF3 subnetwork	0.34143991	1.013458418
GO:0051349	positive regulation of lyase activity	0.9999207	1.013477042
ENSG00000114867	EIF4G1 subnetwork	0.34166076	1.013480641

ENSG00000130299	GTPBP3 subnetwork	0.34161221	1.013513788
MP:0005407	hyperalgesia	0.99991232	1.013530566
ENSG00000137944	CCBL2 subnetwork	0.9999094	1.01359111
ENSG00000126934	MAP2K2 subnetwork	0.3424427	1.013645559
ENSG00000198932	GPRASP1 subnetwork	0.9999064	1.013658673
MP:0001750	increased circulating follicle stimulating hormone level	0.999906	1.013729752
GO:0051205	protein insertion into membrane	0.99990592	1.013797335
ENSG00000163586	FABP1 subnetwork	0.34255505	1.013804612
ENSG00000090776	EFNB1 subnetwork	0.3424298	1.013820316
GO:0045980	negative regulation of nucleotide metabolic process	0.99990467	1.013868434
ENSG00000120658	ENOX1 subnetwork	0.99990397	1.013939543
ENSG00000082641	NFE2L1 subnetwork	0.34276555	1.013950667
REACTOME_ORGANIC_CATION	REACTOME_ORGANIC_CATIONANIONZWITTERION_TRANSI	0.34270948	1.013983822
MP:0008536	enlarged third ventricle	0.99990304	1.014007154
MP:0001077	abnormal spinal nerve morphology	0.99990227	1.014078283
ENSG00000145864	GABRB2 subnetwork	0.99990129	1.014149421
GO:0003208	cardiac ventricle morphogenesis	0.99990052	1.014217062
ENSG00000147852	VLDLR subnetwork	0.99990039	1.01428822
MP:0002108	abnormal muscle morphology	0.99989957	1.014352372
GO:0008328	ionotropic glutamate receptor complex	0.9998971	1.014416532
GO:0030424	axon	0.99989633	1.014487719
MP:0001523	impaired righting response	0.99989584	1.014558916
ENSG00000154608	ENSG00000154608 subnetwork	0.99989502	1.014626614
REACTOME_GLUCAGON:TYPE_	REACTOME_GLUCAGON:TYPE_LIGAND_RECEPTORS	0.99989222	1.014690812
MP:0004672	short ribs	0.99989144	1.014758529
MP:0000008	increased white adipose tissue amount	0.99988956	1.014826255
MP:0000030	abnormal tympanic ring morphology	0.99988847	1.014897501
GO:0060045	positive regulation of cardiac muscle cell proliferation	0.9998875	1.014968757
GO:0030332	cyclin binding	0.34321189	1.01503334
GO:0005980	glycogen catabolic process	0.99988685	1.015036512
GO:0006979	response to oxidative stress	0.34331375	1.015090909
MP:0006337	abnormal first branchial arch morphology	0.99988567	1.015107787
GO:0030809	negative regulation of nucleotide biosynthetic process	0.99988488	1.015179073
GO:0031235	intrinsic to internal side of plasma membrane	0.3432067	1.015187955
ENSG00000125691	RPL23 subnetwork	0.34341799	1.015188851
GO:0042772	DNA damage response, signal transduction resulting in tran	0.34314576	1.015221346
GO:0030800	negative regulation of cyclic nucleotide metabolic process	0.99988488	1.015250369
GO:0030803	negative regulation of cyclic nucleotide biosynthetic proces	0.99988488	1.015321674
ENSG00000040199	PHLPP2 subnetwork	0.34355786	1.015357431
MP:0002862	altered righting response	0.99988302	1.015385966
MP:0003920	abnormal heart right ventricle morphology	0.99988282	1.015457291
GO:0031638	zymogen activation	0.99988213	1.015525114
GO:0007270	neuron-neuron synaptic transmission	0.99988171	1.015596459
MP:0001046	abnormal enteric neuron morphology	0.99988154	1.015667814
GO:0051925	regulation of calcium ion transport via voltage-gated calciu	0.99987863	1.01572864
ENSG00000176894	PXMP2 subnetwork	0.99987735	1.015796501
REACTOME_PHOSPHOLIPASE_	REACTOME_PHOSPHOLIPASE_C:MEDIATED_CASCADE	0.34374662	1.015808601
ENSG00000111186	WNT5B subnetwork	0.99987438	1.015867885
GO:0042491	auditory receptor cell differentiation	0.99987346	1.015935765
MP:0006142	abnormal sinoatrial node conduction	0.99987066	1.015996626
GO:0050922	negative regulation of chemotaxis	0.99986627	1.016057496
MP:0009379	abnormal foot pigmentation	0.99985608	1.016111345
MP:0001629	abnormal heart rate	0.99985605	1.016182777

ENSG00000064419	TNPO3 subnetwork	0.9998536	1.016240157
GO:0042461	photoreceptor cell development	0.99985317	1.016308093
GO:0008234	cysteine-type peptidase activity	0.34397369	1.016310052
GO:0005184	neuropeptide hormone activity	0.99985278	1.016379553
GO:0071174	mitotic cell cycle spindle checkpoint	0.99985195	1.016447507
GO:0045187	regulation of circadian sleep/wake cycle, sleep	0.9998506	1.016511955
ENSG00000099204	ABLIM1 subnetwork	0.34413032	1.01653885
GO:0042749	regulation of circadian sleep/wake cycle	0.9998506	1.016583445
GO:0019717	synaptosome	0.99984805	1.016647911
GO:0007613	memory	0.99984705	1.016715903
GO:0048333	mesodermal cell differentiation	0.9998413	1.016780388
GO:0030801	positive regulation of cyclic nucleotide metabolic process	0.9998393	1.016851917
REACTOME_APC:CDC20_MEDI	REACTOME_APC:CDC20_MEDIATED_DEGRADATION_OF_N	0.99983888	1.016923456
GO:0051302	regulation of cell division	0.99983271	1.016987969
GO:0014014	negative regulation of gliogenesis	0.99982496	1.0170349
ENSG00000148296	SURF6 subnetwork	0.34473267	1.017079807
GO:0016327	apicolateral plasma membrane	0.34502851	1.017106323
ENSG00000134508	CABLES1 subnetwork	0.99982487	1.017106467
ENSG00000198689	SLC9A6 subnetwork	0.34494142	1.01713998
GO:0014032	neural crest cell development	0.99982137	1.017174525
ENSG00000131979	GCH1 subnetwork	0.34471935	1.017214271
REACTOME_GAP_JUNCTION_T	REACTOME_GAP_JUNCTION_TRAFFICKING_AND_REGULAT	0.99982132	1.017246112
REACTOME_NETRIN:1_SIGNAL	REACTOME_NETRIN:1_SIGNALING	0.34491848	1.017274376
ENSG00000168615	ADAM9 subnetwork	0.34449086	1.017288683
ENSG00000198576	ARC subnetwork	0.34485205	1.017298005
ENSG00000053900	ANAPC4 subnetwork	0.99981667	1.017317708
GO:0032462	regulation of protein homooligomerization	0.34465022	1.017362371
ENSG00000166170	BAG5 subnetwork	0.34469491	1.017368952
MP:0001449	abnormal learning/ memory	0.99981224	1.017382276
GO:0032993	protein-DNA complex	0.34518807	1.017425005
GO:0045202	synapse	0.99980686	1.017443334
MP:0005501	abnormal skin physiology	0.34447605	1.017453592
GO:0050885	neuromuscular process controlling balance	0.99980567	1.01751496
MP:0003225	axonal dystrophy	0.34462587	1.017517144
MP:0003059	decreased insulin secretion	0.99980471	1.017579555
GO:0021510	spinal cord development	0.99980326	1.01764768
MP:0000947	convulsive seizures	0.99980272	1.017719335
GO:0050919	negative chemotaxis	0.99980025	1.017791001
GO:0051301	cell division	0.99979737	1.017862676
ENSG00000139083	ETV6 subnetwork	0.34534519	1.017874396
GO:0060795	cell fate commitment involved in formation of primary gerr	0.99979556	1.017927319
GO:0050795	regulation of behavior	0.99979463	1.017995492
MP:0008565	decreased interferon-beta secretion	0.34545567	1.018051922
GO:0043954	cellular component maintenance	0.99979355	1.018060154
ENSG00000092850	TEKT2 subnetwork	0.3458006	1.018080402
GO:0014069	postsynaptic density	0.99979228	1.018124824
GO:0044327	dendritic spine head	0.99979228	1.018196548
GO:0000079	regulation of cyclin-dependent protein kinase activity	0.99978483	1.018254192
GO:0009083	branched chain family amino acid catabolic process	0.34579465	1.018264978
MP:0004726	abnormal nasal capsule morphology	0.9997839	1.018325935
REACTOME_PTM_GAMMA_CA	REACTOME_PTM_GAMMA_CARBOXYLATION_HYPUSINE_F	0.34576404	1.018339031
MP:0001883	mammary adenocarcinoma	0.99978312	1.018397689
ENSG00000116717	GADD45A subnetwork	0.3456608	1.018436934

MP:0006059	decreased susceptibility to ischemic brain injury	0.9997827	1.018469452
ENSG00000008083	JARID2 subnetwork	0.34573375	1.018473451
MP:0004452	abnormal pterygoid process morphology	0.99978145	1.018541226
GO:0048610	cellular process involved in reproduction	0.34564311	1.018581489
GO:0007214	gamma-aminobutyric acid signaling pathway	0.99977841	1.018609486
GO:0045823	positive regulation of heart contraction	0.9997784	1.01868128
GO:0031577	spindle checkpoint	0.99977651	1.018749559
GO:0042551	neuron maturation	0.99977477	1.018821373
ENSG00000176386	CDC26 subnetwork	0.99977214	1.018886147
GO:0042733	embryonic digit morphogenesis	0.999772	1.018954456
REACTOME_PHOSPHORYLATIO	REACTOME_PHOSPHORYLATION_OF_THE_APCC	0.99976832	1.019022774
GO:0051960	regulation of nervous system development	0.99976824	1.019094627
GO:0009799	specification of symmetry	0.99976665	1.019162965
GO:0007625	grooming behavior	0.99976561	1.019231312
GO:0050767	regulation of neurogenesis	0.99976104	1.019303195
GO:0090189	regulation of branching involved in ureteric bud morphogen	0.99976065	1.019375088
ENSG00000102683	SGCG subnetwork	0.9997535	1.019439938
GO:0050806	positive regulation of synaptic transmission	0.99975341	1.019511851
MP:0003949	abnormal circulating lipid level	0.34639622	1.019519791
GO:0043113	receptor clustering	0.9997532	1.019583774
ENSG00000064313	TAF2 subnetwork	0.34693378	1.019608826
ENSG00000121486	TRMT1L subnetwork	0.34671982	1.019610598
ENSG00000116957	TBCE subnetwork	0.34664809	1.019654688
GO:0016358	dendrite development	0.99975312	1.019655708
GO:0060742	epithelial cell differentiation involved in prostate gland dev	0.34639273	1.01971463
GO:0005242	inward rectifier potassium channel activity	0.99975146	1.019727651
ENSG00000013561	RNF14 subnetwork	0.34662328	1.019728916
ENSG00000137154	RPS6 subnetwork	0.34656551	1.019732878
MP:0003222	increased cardiomyocyte apoptosis	0.34653633	1.019797107
ENSG00000130254	SAFB2 subnetwork	0.99975051	1.019799605
GO:0031570	DNA integrity checkpoint	0.34693247	1.019813403
GO:0031012	extracellular matrix	0.99974877	1.019871569
MP:0003997	tonic-clonic seizures	0.99974772	1.019940014
GO:0042306	regulation of protein import into nucleus	0.34690559	1.019957857
GO:0016594	glycine binding	0.99974755	1.020011998
MP:0001489	decreased startle reflex	0.99974702	1.020083992
ENSG00000132016	C19orf57 subnetwork	0.99974671	1.020152467
MP:0005270	abnormal zygomatic bone morphology	0.99974521	1.020224481
MP:0004014	abnormal uterine environment	0.34747719	1.020270541
REACTOME_POTASSIUM_CHAI	REACTOME_POTASSIUM_CHANNELS	0.99974362	1.020292976
GO:0035020	regulation of Rac protein signal transduction	0.9997392	1.020340299
GO:0042745	circadian sleep/wake cycle	0.99973117	1.02039469
ENSG00000198626	RYR2 subnetwork	0.34761959	1.02041675
REACTOME_P53:INDEPENDEN	REACTOME_P53:INDEPENDENT_DNA_DAMAGE_RESPONSE	0.34747132	1.020444979
ENSG00000133816	MICAL2 subnetwork	0.99972461	1.020445559
ENSG00000081026	MAGI3 subnetwork	0.99972435	1.020517619
ENSG00000132589	FLOT2 subnetwork	0.34773187	1.020562901
MP:0004279	abnormal rostral migratory stream morphology	0.99972347	1.020589689
REACTOME_P53:INDEPENDEN	REACTOME_P53:INDEPENDENT_G1S_DNA_DAMAGE_CHEC	0.34747132	1.020649559
MP:0011386	increased metanephric mesenchyme apoptosis	0.9997229	1.02066177
REACTOME_NEUROTRANSMIT	REACTOME_NEUROTRANSMITTER_RECEPTOR_BINDING_AI	0.99972072	1.020723266
GO:0043204	perikaryon	0.99971955	1.020784771
MP:0002741	small olfactory bulb	0.99971532	1.020853348

REACTOME_UBIQUITIN_MEDIATED_DEGRADATION_OF_P	0.34747132	1.020854221
GO:0007062	sister chromatid cohesion	0.3482973
ENSG00000175745	NR2F1 subnetwork	0.34812647
GO:0002021	response to dietary excess	0.99971497
GO:0030071	regulation of mitotic metaphase/anaphase transition	0.99971487
KEGG_AMYOTROPHIC_LATERAL_SCLEROSIS_ALS	0.3474527	1.020998797
GO:0048701	embryonic cranial skeleton morphogenesis	0.99970966
MP:0001917	intraventricular hemorrhage	0.34803673
ENSG00000172732	MUS81 subnetwork	0.34828912
ENSG00000004487	KDM1A subnetwork	0.3481259
ENSG00000172270	BSG subnetwork	0.34823912
GO:0007094	mitotic cell cycle spindle assembly checkpoint	0.99970678
GO:0009975	cyclase activity	0.99970604
ENSG00000173917	HOXB2 subnetwork	0.34800543
GO:0090407	organophosphate biosynthetic process	0.9997056
GO:0016638	oxidoreductase activity, acting on the CH-NH2 group of donor	0.34877387
GO:0032958	inositol phosphate biosynthetic process	0.9997056
GO:0042659	regulation of cell fate specification	0.99969847
GO:0048532	anatomical structure arrangement	0.99969623
ENSG00000088538	DOCK3 subnetwork	0.34876184
ENSG00000134987	WDR36 subnetwork	0.34865207
ENSG00000108294	PSMB3 subnetwork	0.34858766
GO:0045981	positive regulation of nucleotide metabolic process	0.99969414
MP:0009760	abnormal mitotic spindle morphology	0.9996852
ENSG00000130177	CDC16 subnetwork	0.99968297
REACTOME_CYCLIN_AB1_ASSOCIATED_EVENTS_DURING_C	0.99968195	1.021703316
ENSG00000104643	MTMR9 subnetwork	0.99967637
MP:0002805	abnormal conditioned taste aversion behavior	0.99967045
GO:0030826	regulation of cGMP biosynthetic process	0.99966821
GO:0006887	exocytosis	0.99965401
MP:0002919	enhanced paired-pulse facilitation	0.9996534
GO:0005246	calcium channel regulator activity	0.99965249
GO:0030819	positive regulation of cAMP biosynthetic process	0.99964796
GO:0030816	positive regulation of cAMP metabolic process	0.99964796
GO:0042693	muscle cell fate commitment	0.99964749
GO:0030804	positive regulation of cyclic nucleotide biosynthetic process	0.99964662
GO:0071456	cellular response to hypoxia	0.34933524
GO:0030810	positive regulation of nucleotide biosynthetic process	0.99964662
GO:0090190	positive regulation of branching involved in ureteric bud morphogenesis	0.99964316
ENSG00000145833	DDX46 subnetwork	0.34932527
GO:0007091	mitotic metaphase/anaphase transition	0.99964276
GO:0007422	peripheral nervous system development	0.99963205
ENSG00000078902	TOLLIP subnetwork	0.34929411
GO:0045807	positive regulation of endocytosis	0.99963164
GO:0030551	cyclic nucleotide binding	0.9996307
GO:0030553	cGMP binding	0.99962653
GO:0001708	cell fate specification	0.99962212
ENSG00000132535	DLG4 subnetwork	0.99961993
MP:0001661	extended life span	0.99961934
GO:0051954	positive regulation of amine transport	0.99961281
GO:0040013	negative regulation of locomotion	0.9996126
MP:0004739	conductive hearing loss	0.99961243
GO:0032964	collagen biosynthetic process	0.99960872

GO:0043025	neuronal cell body	0.99960847	1.023335458
MP:0001441	increased grooming behavior	0.99960446	1.023400864
GO:0007193	adenylate cyclase-inhibiting G-protein coupled receptor sig	0.99959651	1.023469821
GO:0030837	negative regulation of actin filament polymerization	0.35017818	1.023513567
GO:0048484	enteric nervous system development	0.99959192	1.023535246
ENSG00000170624	SGCD subnetwork	0.99959065	1.02360068
MP:0000077	abnormal interparietal bone morphology	0.99959033	1.023673209
ENSG00000174437	ATP2A2 subnetwork	0.3501652	1.023717821
GO:0051536	iron-sulfur cluster binding	0.35008593	1.023722555
GO:0017158	regulation of calcium ion-dependent exocytosis	0.99958958	1.023742205
GO:0001710	mesodermal cell fate commitment	0.99958734	1.023807668
GO:0005112	Notch binding	0.9995859	1.023880227
GO:0051540	metal cluster binding	0.35008593	1.023926932
MP:0001380	reduced male mating frequency	0.35041633	1.023937762
GO:0007611	learning or memory	0.99958494	1.023952796
GO:0007223	Wnt receptor signaling pathway, calcium modulating pathw	0.99958303	1.024025376
ENSG00000184304	PRKD1 subnetwork	0.35003214	1.02403155
ENSG00000092067	CEBPE subnetwork	0.349988	1.024076293
ENSG00000067715	SYT1 subnetwork	0.99957996	1.024090877
GO:0035313	wound healing, spreading of epidermal cells	0.99957968	1.024163477
REACTOME_GAP_JUNCTION_T	REACTOME_GAP_JUNCTION_TRAFFICKING	0.99957153	1.024221907
GO:0010092	specification of organ identity	0.99956551	1.024290981
REACTOME_INHIBITION_OF_T	REACTOME_INHIBITION_OF_THE_PROTEOLYTIC_ACTIVITY_	0.99956389	1.024360065
REACTOME_INACTIVATION_OF	REACTOME_INACTIVATION_OF_APCC_VIA_DIRECT_INHIBIT	0.99956389	1.024432705
ENSG00000075711	DLG1 subnetwork	0.99956381	1.024505354
MP:0005105	abnormal middle ear ossicle morphology	0.99955825	1.024556738
GO:0050906	detection of stimulus involved in sensory perception	0.99955396	1.024608128
GO:0018130	heterocycle biosynthetic process	0.99954634	1.024680806
GO:0032768	regulation of monooxygenase activity	0.35072387	1.024700838
REACTOME_MITOTIC_SPINDLE	REACTOME_MITOTIC_SPINDLE_CHECKPOINT	0.99953926	1.0247464
GO:2000677	regulation of transcription regulatory region DNA binding	0.99953906	1.024819098
ENSG00000118922	KLF12 subnetwork	0.3508161	1.024845464
REACTOME_G:PROTEIN_ACTIV	REACTOME_G:PROTEIN_ACTIVATION	0.99953479	1.024891806
REACTOME_CLASS_B2_SECRET	REACTOME_CLASS_B2_SECRETIN_FAMILY_RECEPTORS	0.99953006	1.024946786
MP:0002566	abnormal sexual interaction	0.99952998	1.025015965
MP:0005333	decreased heart rate	0.9995296	1.025088703
MP:0010380	inner cell mass apoptosis	0.99952829	1.025154354
GO:0051482	elevation of cytosolic calcium ion concentration involved in	0.9995149	1.025195174
ENSG00000117650	NEK2 subnetwork	0.99951154	1.025264391
GO:0006941	striated muscle contraction	0.99950093	1.025312323
MP:0004066	abnormal primitive node morphology	0.99949722	1.025378008
ENSG00000088256	GNA11 subnetwork	0.99949665	1.025450802
GO:0042462	eye photoreceptor cell development	0.99949438	1.025516507
GO:0032281	alpha-amino-3-hydroxy-5-methyl-4-isoxazolepropionic acid	0.99949011	1.025578671
ENSG00000124422	USP22 subnetwork	0.35132838	1.025647668
GO:0071674	mononuclear cell migration	0.99948881	1.025647944
GO:0021675	nerve development	0.99947856	1.025706576
ENSG00000131018	SYNE1 subnetwork	0.35130791	1.025772374
GO:0071173	spindle assembly checkpoint	0.99947781	1.025779419
GO:0010771	negative regulation of cell morphogenesis involved in differ	0.35123355	1.025837321
MP:0001890	anencephaly	0.99947759	1.025852273
GO:0007601	visual perception	0.99947745	1.025925137
ENSG00000157193	LRP8 subnetwork	0.99947561	1.025987356

GO:0048024	regulation of nuclear mRNA splicing, via spliceosome	0.99945973	1.026021169
MP:0000848	abnormal pons morphology	0.99945593	1.026079852
MP:0001399	hyperactivity	0.99945467	1.026149201
GO:0042472	inner ear morphogenesis	0.99944541	1.026211454
GO:0060291	long-term synaptic potentiation	0.99943681	1.026259504
GO:0021889	olfactory bulb interneuron differentiation	0.9994368	1.026332433
GO:0006821	chloride transport	0.99943545	1.026405373
GO:0044297	cell body	0.99943217	1.026478323
GO:0007600	sensory perception	0.99942768	1.026540621
MP:0005445	abnormal neurotransmitter secretion	0.99942707	1.026613591
MP:0005551	abnormal eye electrophysiology	0.99941645	1.026668799
ENSG00000179915	NRXN1 subnetwork	0.99941479	1.026738234
GO:0001937	negative regulation of endothelial cell proliferation	0.99940071	1.026782794
GO:0051955	regulation of amino acid transport	0.99940012	1.026855802
GO:0042813	Wnt-activated receptor activity	0.99938313	1.026911043
GO:0046834	lipid phosphorylation	0.35183308	1.026937637
GO:0050890	cognition	0.99937504	1.026962736
REACTOME_ADHERENS_JUNCTIONS_INTERACTIONS	REACTOME_ADHERENS_JUNCTIONS_INTERACTIONS	0.99936705	1.027025105
GO:0051784	negative regulation of nuclear division	0.99936289	1.02708037
GO:0045839	negative regulation of mitosis	0.99936289	1.027153425
MP:0010404	ostium primum atrial septal defect	0.99935211	1.027219377
ENSG00000164438	TLX3 subnetwork	0.35226343	1.027289013
GO:0043928	exonucleolytic nuclear-transcribed mRNA catabolic process	0.99935147	1.027292452
GO:0033013	tetrapyrrole metabolic process	0.35221376	1.027334262
GO:0000291	nuclear-transcribed mRNA catabolic process, exonucleolytic	0.99935147	1.027365538
ENSG00000117133	RPF1 subnetwork	0.35204608	1.027390438
MP:0000819	abnormal olfactory bulb morphology	0.99934707	1.027431519
GO:0032589	neuron projection membrane	0.99933581	1.027490394
GO:0006778	porphyrin-containing compound metabolic process	0.35221376	1.027538829
GO:0008608	attachment of spindle microtubules to kinetochore	0.99933507	1.027559952
GO:0007626	locomotory behavior	0.99933322	1.027625961
GO:0004518	nuclease activity	0.35219678	1.027683728
GO:0007263	nitric oxide mediated signal transduction	0.99932364	1.027688421
ENSG00000141404	GNAL subnetwork	0.99932081	1.027747331
MP:0002957	intestinal adenocarcinoma	0.35247154	1.027791045
ENSG00000131183	SLC34A1 subnetwork	0.35254295	1.02781536
ENSG00000099341	PSMD8 subnetwork	0.35263316	1.027819773
GO:0044057	regulation of system process	0.9993189	1.027820485
GO:0001975	response to amphetamine	0.99929587	1.027865177
ENSG00000137752	CASP1 subnetwork	0.35272263	1.027893795
MP:0003123	paternal imprinting	0.99929505	1.02793835
MP:0002945	abnormal inhibitory postsynaptic currents	0.99929074	1.027997295
REACTOME_INCRETIN_SYNTHESIS_SECRETION_AND_INACT	REACTOME_INCRETIN_SYNTHESIS_SECRETION_AND_INACT	0.99929008	1.028070488
GO:0003016	respiratory system process	0.99928729	1.028133011
GO:0034704	calcium channel complex	0.99928241	1.028202663
ENSG00000176697	BDNF subnetwork	0.99928203	1.028275887
GO:0002076	osteoblast development	0.99927787	1.028345559
GO:0050905	neuromuscular process	0.99927786	1.028418803
ENSG00000170035	UBE2E3 subnetwork	0.35297131	1.028435077
ENSG00000126005	ENSG00000126005 subnetwork	0.35309507	1.028463526
GO:0045841	negative regulation of mitotic metaphase/anaphase transition	0.99927308	1.028484935
MP:0003996	clonic seizures	0.99926567	1.028547514
ENSG00000205220	PSMB10 subnetwork	0.35306476	1.02860835

MP:0006000	abnormal corneal epithelium morphology	0.99926435	1.028617226
REACTOME_ACETYLCHOLINE_RELEASE	REACTOME_ACETYLCHOLINE_NEUROTRANSMITTER_RELEASE	0.99925638	1.028683386
GO:0030665	clathrin coated vesicle membrane	0.99924923	1.028745992
ENSG00000163485	ADORA1 subnetwork	0.99924496	1.028805045
GO:0003002	regionalization	0.9992422	1.028871232
GO:0005774	vacuolar membrane	0.35358837	1.028921763
REACTOME_ENDOSOMAL_SORTING	REACTOME_ENDOSOMAL_SORTING_COMPLEX_REQUIRED	0.99924123	1.028944555
GO:0008527	taste receptor activity	0.35337757	1.028958871
ENSG00000105856	HBP1 subnetwork	0.35367008	1.028965654
ENSG00000165458	INPPL1 subnetwork	0.3537281	1.028979754
GO:0015698	inorganic anion transport	0.99923912	1.029014325
MP:0000520	absent kidney	0.99923658	1.029084105
ENSG00000066654	THUMP1 subnetwork	0.35358558	1.029116187
GO:0016180	snRNA processing	0.35336153	1.029133545
ENSG00000156049	GNA14 subnetwork	0.99923495	1.029153896
GO:0004890	GABA-A receptor activity	0.99923003	1.029216567
GO:0060536	cartilage morphogenesis	0.99921367	1.029268554
GO:0000794	condensed nuclear chromosome	0.35357738	1.029290822
GO:0010002	cardioblast differentiation	0.99919593	1.029327677
GO:0051602	response to electrical stimulus	0.99918265	1.029386809
GO:0006942	regulation of striated muscle contraction	0.99918206	1.029460211
GO:0008344	adult locomotory behavior	0.99917861	1.029526492
GO:0030534	adult behavior	0.99916918	1.029589217
GO:0021511	spinal cord patterning	0.99915589	1.029626988
GO:0051890	regulation of cardioblast differentiation	0.99915169	1.029693295
GO:0010659	cardiac muscle cell apoptotic process	0.99914813	1.029759612
REACTOME_RNA_POLYMERASE_I_TRANSCRIPTION	REACTOME_RNA_POLYMERASE_I_TRANSCRIPTION	0.35411136	1.029821429
MP:0002913	abnormal PNS synaptic transmission	0.99914736	1.029833072
GO:0072009	nephron epithelium development	0.99913917	1.029892274
MP:0000854	abnormal cerebellum development	0.99913399	1.029958619
ENSG00000166866	MYO1A subnetwork	0.35410502	1.030015876
GO:0030141	secretory granule	0.99913251	1.030028541
GO:0030261	chromosome condensation	0.99912184	1.030080634
GO:0007216	G-protein coupled glutamate receptor signaling pathway	0.99911859	1.030147006
GO:0035249	synaptic transmission, glutamatergic	0.99911571	1.030216957
GO:0045666	positive regulation of neuron differentiation	0.99911555	1.030290486
GO:0050808	synapse organization	0.99911539	1.030364026
GO:0060841	venous blood vessel development	0.99911114	1.030423299
ENSG00000129514	FOXA1 subnetwork	0.35434334	1.030460226
GO:0009855	determination of bilateral symmetry	0.99910882	1.03049329
ENSG00000147130	ZMYM3 subnetwork	0.35457436	1.030535183
GO:0072073	kidney epithelium development	0.99910864	1.030566859
ENSG00000131459	GFPT2 subnetwork	0.3544117	1.030573185
ENSG00000146733	PSPH subnetwork	0.35453142	1.030600714
MP:0001440	abnormal grooming behavior	0.99910417	1.0306333
GO:0008201	heparin binding	0.99909078	1.03069261
ENSG00000100342	APOL1 subnetwork	0.35465509	1.030697582
GO:0055015	ventricular cardiac muscle cell development	0.99909022	1.03076621
MP:0005517	decreased liver regeneration	0.35452805	1.030795162
GO:0022410	circadian sleep/wake cycle process	0.99908033	1.030825537
MP:0008918	microgliosis	0.35479302	1.030853803
GO:0050802	circadian sleep/wake cycle, sleep	0.99908033	1.030899157
MP:0002782	abnormal testes secretion	0.9990791	1.030969216

GO:0032355	response to estradiol stimulus	0.35477056	1.030988706
GO:0015276	ligand-gated ion channel activity	0.99907746	1.031042857
GO:0022834	ligand-gated channel activity	0.99907746	1.031116508
GO:0008066	glutamate receptor activity	0.99906741	1.03117231
ENSG00000136045	PWP1 subnetwork	0.35504637	1.031178218
GO:0035176	social behavior	0.99903364	1.031188826
ENSG00000135387	CAPRIN1 subnetwork	0.35498424	1.031204199
GO:0048635	negative regulation of muscle organ development	0.99903334	1.031262504
MP:0001393	ataxia	0.99902601	1.031318328
GO:0016917	GABA receptor activity	0.99902295	1.031392025
ENSG00000158042	MRPL17 subnetwork	0.35516298	1.03142942
GO:0046530	photoreceptor cell differentiation	0.99902108	1.031458586
MP:0001243	abnormal dermal layer morphology	0.35523701	1.031482581
GO:0042755	eating behavior	0.99901927	1.031528731
MP:0003049	abnormal lumbar vertebrae morphology	0.99901431	1.031598885
MP:0003690	abnormal glial cell physiology	0.99900873	1.031669049
GO:0008360	regulation of cell shape	0.99899606	1.031728501
GO:0001664	G-protein coupled receptor binding	0.35734191	1.031787753
GO:0048260	positive regulation of receptor-mediated endocytosis	0.99899553	1.031802259
MP:0002781	increased circulating testosterone level	0.35586415	1.031824471
MP:0004008	abnormal GABA-mediated receptor currents	0.9989861	1.031854579
GO:0051098	regulation of binding	0.35752551	1.031863806
MP:0000458	abnormal mandible morphology	0.99898378	1.031924782
ENSG00000170004	CHD3 subnetwork	0.35543214	1.031961211
ENSG00000085274	MYNN subnetwork	0.35733804	1.031981095
GO:0060706	cell differentiation involved in embryonic placenta development	0.9989725	1.031987844
GO:0046545	development of primary female sexual characteristics	0.3558606	1.031998814
KEGG_GALACTOSE_METABOLISM	KEGG_GALACTOSE_METABOLISM	0.35750901	1.032007874
MP:0001502	abnormal circadian rhythm	0.35762103	1.032024793
GO:0004221	ubiquitin thiolesterase activity	0.356034	1.032025692
ENSG00000196781	TLE1 subnetwork	0.35767913	1.032038166
MP:0008283	small hippocampus	0.99896751	1.032054491
ENSG00000106355	LSM5 subnetwork	0.35554553	1.032063712
GO:0006084	acetyl-CoA metabolic process	0.35580024	1.032094127
ENSG00000149554	CHEK1 subnetwork	0.3572918	1.032105574
MP:0009660	abnormal induced retinal neovascularization	0.35785297	1.032114061
GO:0003084	positive regulation of systemic arterial blood pressure	0.99896719	1.032128299
GO:0040017	positive regulation of locomotion	0.35574553	1.032169699
ENSG00000126247	CAPNS1 subnetwork	0.35781208	1.032179386
KEGG_CARDIAC_MUSCLE_CONTRACTION	KEGG_CARDIAC_MUSCLE_CONTRACTION	0.99895931	1.032184237
MP:0005505	increased platelet cell number	0.35703248	1.032190026
ENSG00000034152	MAP2K3 subnetwork	0.35726469	1.032220252
GO:0048259	regulation of receptor-mediated endocytosis	0.99895685	1.032258065
ENSG00000163251	FZD5 subnetwork	0.35718819	1.032285714
ENSG00000170727	BOP1 subnetwork	0.35633944	1.032322734
GO:0030510	regulation of BMP signaling pathway	0.99895234	1.032331903
GO:0009968	negative regulation of signal transduction	0.35650214	1.0323692
ENSG00000059378	PARP12 subnetwork	0.3570267	1.032373817
GO:0016863	intramolecular oxidoreductase activity, transposing C=C bond	0.35573873	1.032373887
ENSG00000116161	CACYBP subnetwork	0.3569752	1.032380201
MP:0005458	increased percent body fat	0.35622946	1.032404663
GO:0007622	rhythmic behavior	0.99895099	1.032405751
ENSG00000128709	HOXD9 subnetwork	0.3571664	1.03243989

MP:0004204	absent stapes	0.99894241	1.032461726
MP:0000239	absent common myeloid progenitor cells	0.35644478	1.032464455
ENSG00000169057	MECP2 subnetwork	0.35632757	1.032497037
GO:0045880	positive regulation of smoothened signaling pathway	0.9989335	1.03252844
MP:0004696	abnormal thyroid follicle morphology	0.35696165	1.032564103
REACTOME_FGFR1C_LIGAND_BINDING_AND_ACTIVATION	REACTOME_FGFR1C_LIGAND_BINDING_AND_ACTIVATION	0.99891534	1.03257012
MP:0001862	interstitial pneumonia	0.35689472	1.032600118
GO:0055010	ventricular cardiac muscle tissue morphogenesis	0.99890953	1.032640429
ENSG00000163703	CRELD1 subnetwork	0.9989005	1.032700014
MP:0005107	abnormal stapes morphology	0.99889292	1.032763186
ENSG00000125731	SH2D3A subnetwork	0.35686679	1.03277427
ENSG00000121807	CCR2 subnetwork	0.35891156	1.03281342
REACTOME_G1S_DNA_DAMAGE_CHECKPOINTS	REACTOME_G1S_DNA_DAMAGE_CHECKPOINTS	0.35681757	1.032820209
GO:0055123	digestive system development	0.99889087	1.032829946
ENSG00000063438	AHRR subnetwork	0.3567654	1.032836557
ENSG00000154342	WNT3A subnetwork	0.99888936	1.032900293
ENSG00000130204	TOMM40 subnetwork	0.35878384	1.032904809
REACTOME_G1S_SPECIFIC_TRANSCRIPTION	REACTOME_G1S_SPECIFIC_TRANSCRIPTION	0.99888894	1.03297423
GO:0018214	protein carboxylation	0.35874576	1.032989792
GO:0022617	extracellular matrix disassembly	0.35901827	1.033012946
ENSG00000215782	ENSG00000215782 subnetwork	0.35891156	1.033016091
ENSG00000072401	UBE2D1 subnetwork	0.99888891	1.033048178
ENSG00000166401	SERPINB8 subnetwork	0.99885531	1.033068442
ENSG00000151694	ADAM17 subnetwork	0.35912686	1.033114336
GO:0045843	negative regulation of striated muscle tissue development	0.99884772	1.033117348
MP:0008803	abnormal placental labyrinth vasculature morphology	0.35918578	1.033117647
REACTOME_CHROMOSOME_MAINTENANCE	REACTOME_CHROMOSOME_MAINTENANCE	0.35842031	1.033120456
ENSG00000169136	ATF5 subnetwork	0.35945009	1.03313737
MP:0001463	abnormal spatial learning	0.99883792	1.033177001
GO:0017187	peptidyl-glutamic acid carboxylation	0.35874576	1.033192617
GO:0070098	chemokine-mediated signaling pathway	0.99880782	1.03320444
ENSG00000096401	CDC5L subnetwork	0.3583119	1.033212109
GO:0002237	response to molecule of bacterial origin	0.3583824	1.033215409
MP:0000836	abnormal substantia nigra morphology	0.35869412	1.033248233
GO:0090090	negative regulation of canonical Wnt receptor signaling pathway	0.99880722	1.03327843
MP:0011106	partial embryonic lethality before somite formation	0.35858059	1.033290766
GO:0055080	cation homeostasis	0.35864551	1.033333333
ENSG00000037280	FLT4 subnetwork	0.35944931	1.033339867
GO:0014033	neural crest cell differentiation	0.99880189	1.033341689
MP:0001701	incomplete embryo turning	0.35830934	1.033385765
MP:0004275	abnormal postnatal subventricular zone morphology	0.99879797	1.033408537
MP:0004144	hypotonia	0.99879564	1.033475396
ENSG00000092010	PSME1 subnetwork	0.35941209	1.033483631
ENSG00000100146	SOX10 subnetwork	0.99878871	1.033545845
GO:0016849	phosphorus-oxygen lyase activity	0.9987661	1.033591231
GO:0019934	cGMP-mediated signaling	0.99875322	1.033647371
GO:0030431	sleep	0.99874828	1.033717848
GO:0048246	macrophage chemotaxis	0.99873842	1.033770421
MP:0001264	increased body size	0.99873091	1.033830168
GO:0044319	wound healing, spreading of cells	0.99872976	1.033904257
GO:0032094	response to food	0.99871995	1.033971189
MP:0001395	bidirectional circling	0.35979206	1.034022335
MP:0000565	oligodactyly	0.9987187	1.034041714

GO:0030666	endocytic vesicle membrane	0.998709	1.03409433
GO:0071548	response to dexamethasone stimulus	0.99870568	1.034168459
ENSG00000187391	MAGI2 subnetwork	0.99868474	1.034203169
GO:0048512	circadian behavior	0.99867908	1.034277316
GO:0048565	digestive tract development	0.99866898	1.034337133
MP:0004100	abnormal spinal cord interneuron morphology	0.99865249	1.03439696
MP:0004215	abnormal myocardial fiber physiology	0.99862868	1.034453209
ENSG00000162419	GMEB1 subnetwork	0.35999751	1.03446621
GO:0033865	nucleoside bisphosphate metabolic process	0.99862616	1.034520224
GO:0050953	sensory perception of light stimulus	0.99862411	1.034583662
MP:0001526	abnormal placing response	0.99862121	1.034654282
ENSG00000176248	ANAPC2 subnetwork	0.99862062	1.034728499
GO:2000273	positive regulation of receptor activity	0.99861274	1.034795552
MP:0000183	decreased circulating LDL cholesterol level	0.99860388	1.034866203
GO:0071621	granulocyte chemotaxis	0.99860281	1.034933276
GO:0033137	negative regulation of peptidyl-serine phosphorylation	0.36023662	1.034958872
GO:0071622	regulation of granulocyte chemotaxis	0.99860281	1.035007534
MP:0002243	abnormal vomeronasal organ morphology	0.99859892	1.035078215
ENSG00000149930	TAOK2 subnetwork	0.36035892	1.035089093
MP:0001259	abnormal body weight	0.99859542	1.035141729
ENSG00000174446	SNAPC5 subnetwork	0.36047429	1.035160532
GO:0070412	R-SMAD binding	0.36069957	1.035188808
ENSG00000184640	SEPT9 subnetwork	0.3605843	1.035202584
MP:0003194	abnormal frequency of paradoxical sleep	0.99859336	1.035216018
GO:0060068	vagina development	0.36067184	1.035283757
MP:0005404	abnormal axon morphology	0.99858702	1.035286729
GO:0033605	positive regulation of catecholamine secretion	0.99856618	1.03532874
MP:0002207	abnormal long term potentiation	0.99855135	1.035392291
GO:0032421	stereocilium bundle	0.36138887	1.035400391
MP:0001406	abnormal gait	0.99854799	1.035463029
MP:0003722	absent ureter	0.99854475	1.035533778
ENSG00000204264	PSMB8 subnetwork	0.36136872	1.035544052
GO:0005104	fibroblast growth factor receptor binding	0.99854096	1.035604538
ENSG00000144744	UBA3 subnetwork	0.36099266	1.035634657
ENSG00000108883	EFTUD2 subnetwork	0.36092388	1.03567097
ENSG00000144285	SCN1A subnetwork	0.99853231	1.035671717
MP:0003703	abnormal vestibulocochlear ganglion morphology	0.99852854	1.035742496
ENSG00000206234	ENSG00000206234 subnetwork	0.36136872	1.035746385
GO:0051917	regulation of fibrinolysis	0.99852837	1.035816876
MP:0001504	abnormal posture	0.99852439	1.035887676
GO:0060402	calcium ion transport into cytosol	0.3611226	1.035901447
ENSG00000128641	MYO1B subnetwork	0.36126335	1.035916732
ENSG00000206298	PSMB8 subnetwork	0.36136872	1.035948798
ENSG00000186979	ENSG00000186979 subnetwork	0.99852067	1.035951304
MP:0003071	decreased vascular permeability	0.36121349	1.035962854
MP:0000554	abnormal carpal bone morphology	0.99851609	1.036018532
GO:0005545	1-phosphatidylinositol binding	0.99851011	1.03608577
GO:0019002	GMP binding	0.99850631	1.036153017
MP:0002856	abnormal vestibular ganglion morphology	0.99849622	1.036202313
GO:0042612	MHC class I protein complex	0.36166218	1.036262449
GO:0042391	regulation of membrane potential	0.99849491	1.036273171
GO:0050803	regulation of synapse structure and activity	0.99849397	1.03634404
GO:0009982	pseudouridine synthase activity	0.36175266	1.036372511

MP:0000276	heart right ventricle hypertrophy	0.99848596	1.036407732
GO:0009950	dorsal/ventral axis specification	0.99846565	1.036453467
GO:0051606	detection of stimulus	0.9984591	1.036517177
MP:0003233	prolonged QT interval	0.99845739	1.036591677
GO:0032982	myosin filament	0.99845702	1.036666187
MP:0006033	abnormal external auditory canal morphology	0.99845188	1.036737115
ENSG00000156127	BATF subnetwork	0.36190806	1.036746047
GO:0016248	channel inhibitor activity	0.99843985	1.036779295
GO:0008200	ion channel inhibitor activity	0.99843985	1.036853836
MP:0010053	decreased grip strength	0.99843278	1.036914006
ENSG00000093100	ENSG00000093100 subnetwork	0.99843086	1.036984972
MP:0002739	abnormal olfactory bulb development	0.99842435	1.037052352
GO:0071837	HMG box domain binding	0.99840637	1.037087379
GO:0042451	purine nucleoside biosynthetic process	0.99839842	1.037143987
GO:0042455	ribonucleoside biosynthetic process	0.99839842	1.037218586
GO:0046129	purine ribonucleoside biosynthetic process	0.99839842	1.037293195
GO:0044420	extracellular matrix part	0.99838315	1.037346234
GO:0005578	proteinaceous extracellular matrix	0.9983753	1.037413669
GO:0002052	positive regulation of neuroblast proliferation	0.99836653	1.037481114
GO:0007368	determination of left/right symmetry	0.99836018	1.037537775
MP:0008438	abnormal cutaneous collagen fibril morphology	0.99835503	1.037601641
REACTOME_NEGATIVE_REGUL	REACTOME_NEGATIVE_REGULATION_OF_FGFR_SIGNALING	0.99833399	1.037654721
ENSG00000089053	ANAPC5 subnetwork	0.99832688	1.037722202
GO:0030672	synaptic vesicle membrane	0.99831905	1.037782496
MP:0000704	abnormal thymus development	0.99831286	1.037842799
GO:0048489	synaptic vesicle transport	0.99831083	1.037913907
MP:0002882	abnormal neuron morphology	0.99831033	1.037977827
GO:0070875	positive regulation of glycogen metabolic process	0.36240827	1.037978142
GO:0017137	Rab GTPase binding	0.36353161	1.037988718
REACTOME_FGFR1_LIGAND_B	REACTOME_FGFR1_LIGAND_BINDING_AND_ACTIVATION	0.99830592	1.038041757
GO:0003229	ventricular cardiac muscle tissue development	0.99829669	1.038102095
MP:0004609	vertebral fusion	0.36352286	1.038161479
GO:0051970	negative regulation of transmission of nerve impulse	0.99829401	1.038173243
GO:0009266	response to temperature stimulus	0.99828563	1.0382336
GO:0007584	response to nutrient	0.36290176	1.038255361
ENSG00000008300	CELSR3 subnetwork	0.36278824	1.038270281
GO:0007158	neuron cell-cell adhesion	0.99827572	1.038272361
GO:0016578	histone deubiquitination	0.36343037	1.038273647
MP:0008525	decreased cranium height	0.36349414	1.038285659
ENSG00000181788	SIAH2 subnetwork	0.36284873	1.038311562
REACTOME_METAL_ION_SLC	REACTOME_METAL_ION_SLC_TRANSPORTERS	0.36330612	1.038317757
ENSG00000125730	C3 subnetwork	0.36275737	1.038326507
GO:0007379	segment specification	0.99826162	1.038332733
GO:0048754	branching morphogenesis of a tube	0.36336876	1.038339498
ENSG00000111276	CDKN1B subnetwork	0.36263217	1.038341463
GO:0030857	negative regulation of epithelial cell differentiation	0.3637945	1.038343379
ENSG00000125753	VASP subnetwork	0.36327463	1.038373905
GO:0034763	negative regulation of transmembrane transport	0.36309595	1.038376851
GO:0019098	reproductive behavior	0.99825815	1.038400317
ENSG00000171681	ATF7IP subnetwork	0.36323603	1.038439813
GO:0055021	regulation of cardiac muscle tissue growth	0.99824025	1.0384427
MP:0001488	increased startle reflex	0.99822419	1.038470681
MP:0002314	abnormal respiratory mechanics	0.36374629	1.038477246

MP:0003461	abnormal response to novel object	0.9981852	1.038495065
ENSG00000169813	HNRNPF subnetwork	0.36274704	1.038499805
GO:0002230	positive regulation of defense response to virus by host	0.3632102	1.038544711
GO:0034765	regulation of ion transmembrane transport	0.99816817	1.038548271
ENSG00000196235	SUPT5H subnetwork	0.36309473	1.038559735
GO:0014075	response to amine stimulus	0.99816228	1.038605087
GO:0017157	regulation of exocytosis	0.99815762	1.038672719
REACTOME_FGFR4_LIGAND_BINDING_AND_ACTIVATION	REACTOME_FGFR4_LIGAND_BINDING_AND_ACTIVATION	0.99813169	1.038704331
ENSG00000117399	CDC20 subnetwork	0.99812409	1.038775584
MP:0003056	abnormal hyoid bone morphology	0.99811622	1.038843243
MP:0003137	abnormal impulse conducting system conduction	0.99811384	1.038914516
MP:0002916	increased synaptic depression	0.99808392	1.03894255
ENSG00000171863	RPS7 subnetwork	0.36474249	1.03895033
GO:0008146	sulfotransferase activity	0.99807965	1.039010236
ENSG00000175899	A2M subnetwork	0.36483196	1.039020369
ENSG00000063177	RPL18 subnetwork	0.36424325	1.03904216
GO:0005834	heterotrimeric G-protein complex	0.99807572	1.039077932
MP:0011090	partial perinatal lethality	0.36492815	1.039080683
ENSG00000170608	FOXA3 subnetwork	0.36471725	1.039084029
GO:0010522	regulation of calcium ion transport into cytosol	0.36422229	1.039127478
MP:0002544	brachydactyly	0.99806774	1.039134823
GO:0021700	developmental maturation	0.99805581	1.039198933
GO:0030509	BMP signaling pathway	0.99803195	1.039237814
GO:0003300	cardiac muscle hypertrophy	0.36470381	1.039256599
GO:0032368	regulation of lipid transport	0.36419128	1.039290573
GO:0032489	regulation of Cdc42 protein signal transduction	0.99802903	1.039309151
ENSG00000124795	DEK subnetwork	0.36412497	1.039366252
GO:0043088	regulation of Cdc42 GTPase activity	0.99802903	1.039384105
MP:0001417	decreased exploration in new environment	0.9980239	1.039455463
GO:0014897	striated muscle hypertrophy	0.36470381	1.039458358
MP:0008814	reduced nerve conduction velocity	0.99802299	1.039530439
GO:0050308	sugar-phosphatase activity	0.36469318	1.039563107
GO:0010243	response to organic nitrogen	0.99802292	1.039605425
MP:0002260	abnormal thyroid cartilage morphology	0.99799758	1.039640744
GO:0031228	intrinsic to Golgi membrane	0.36456663	1.039656177
GO:0061311	cell surface receptor signaling pathway involved in heart de	0.99798813	1.039697713
GO:0007416	synapse assembly	0.99797851	1.039747475
GO:0019203	carbohydrate phosphatase activity	0.36469318	1.039765003
REACTOME_SHC:MEDIATED_CASCADE	REACTOME_SHC:MEDIATED_CASCADE	0.99796694	1.039804459
ENSG00000125084	WNT1 subnetwork	0.99795921	1.039875884
MP:0010984	abnormal metanephric mesenchyme morphology	0.99794216	1.039925669
MP:0003733	abnormal retinal inner nuclear layer morphology	0.99792325	1.039975462
GO:0030336	negative regulation of cell migration	0.99792209	1.040043306
GO:0009581	detection of external stimulus	0.99791828	1.040111159
GO:0033057	multicellular organismal reproductive behavior	0.99791719	1.040182632
GO:0048713	regulation of oligodendrocyte differentiation	0.99789837	1.040232457
GO:0045664	regulation of neuron differentiation	0.99788408	1.0402859
GO:0015812	gamma-aminobutyric acid transport	0.9978763	1.04033935
ENSG00000155966	AFF2 subnetwork	0.36546439	1.040391701
GO:0006112	energy reserve metabolic process	0.9978721	1.04041086
ENSG00000064995	TAF11 subnetwork	0.36556238	1.040442032
ENSG00000168702	LRP1B subnetwork	0.99786128	1.040457106
GO:0030318	melanocyte differentiation	0.9978573	1.040528634

MP:0008023	abnormal styloid process morphology	0.99784235	1.040585729
GO:0050805	negative regulation of synaptic transmission	0.99783789	1.040660888
ENSG00000133121	STARD13 subnetwork	0.36569869	1.040705563
GO:0045601	regulation of endothelial cell differentiation	0.99783586	1.040732447
KEGG_CYSTEINE_AND_METHIC	KEGG_CYSTEINE_AND_METHIONINE_METABOLISM	0.3657982	1.040775194
GO:0055024	regulation of cardiac muscle tissue development	0.99782516	1.040796793
MP:0009538	abnormal synapse morphology	0.99782345	1.040871984
GO:0006677	glycosylceramide metabolic process	0.99780681	1.040932736
ENSG00000115963	RND3 subnetwork	0.36610923	1.040983924
GO:0007608	sensory perception of smell	0.99780123	1.041007948
ENSG00000099991	CABIN1 subnetwork	0.36605772	1.041049981
GO:0007189	adenylate cyclase-activating G-protein coupled receptor sig	0.99778588	1.041065106
KEGG_WNT_SIGNALING_PATH	KEGG_WNT_SIGNALING_PATHWAY	0.36600956	1.041067623
GO:0010579	positive regulation of adenylate cyclase activity involved in	0.99778588	1.041140338
GO:0010578	regulation of adenylate cyclase activity involved in G-protei	0.99778588	1.041215581
GO:0002087	regulation of respiratory gaseous exchange by neurological	0.9977761	1.041272767
GO:0044065	regulation of respiratory system process	0.9977761	1.04134803
MP:0001739	abnormal adrenal gland secretion	0.99777114	1.041419691
MP:0001153	small seminiferous tubules	0.36631878	1.041431061
GO:0022029	telencephalon cell migration	0.99776998	1.041494976
GO:0006836	neurotransmitter transport	0.99774964	1.041541353
ENSG00000118046	STK11 subnetwork	0.36646179	1.041550523
GO:0001754	eye photoreceptor cell differentiation	0.99774542	1.041613043
REACTOME_ENERGY_DEPENDI	REACTOME_ENERGY_DEPENDENT_REGULATION_OF_MTOI	0.36659028	1.041668279
GO:0030247	polysaccharide binding	0.99773779	1.041684743
GO:0044437	vacuolar part	0.36644209	1.041694095
GO:0001871	pattern binding	0.99773779	1.041760069
REACTOME_ADP_SIGNALLING_	REACTOME_ADP_SIGNALLING_THROUGH_P2Y_PURINOCE	0.99773135	1.041820943
MP:0000746	weakness	0.99773015	1.041881825
GO:0045879	negative regulation of smoothened signaling pathway	0.99772287	1.041942717
ENSG00000175063	UBE2C subnetwork	0.99771226	1.041996383
GO:0050807	regulation of synapse organization	0.99770919	1.042064525
GO:0021799	cerebral cortex radially oriented cell migration	0.99764805	1.042103169
GO:0045446	endothelial cell differentiation	0.99769537	1.042114592
GO:0015077	monovalent inorganic cation transmembrane transporter a	0.99763779	1.042167716
GO:0060759	regulation of response to cytokine stimulus	0.36688601	1.042184175
ENSG00000151834	GABRA2 subnetwork	0.99763481	1.04223589
MP:0002187	abnormal fibula morphology	0.36684759	1.042269737
GO:0031000	response to caffeine	0.9976076	1.042289601
MP:0003932	abnormal molar crown morphology	0.9976058	1.042365031
MP:0003290	intestinal hypoperistalsis	0.99760448	1.042436853
ENSG00000133119	RFC3 subnetwork	0.3675965	1.042448822
ENSG00000145365	TIFA subnetwork	0.3670748	1.04245648
ENSG00000185532	PRKG1 subnetwork	0.367339	1.042462312
GO:0003231	cardiac ventricle development	0.9976034	1.042512305
ENSG00000104824	HNRNPL subnetwork	0.36745853	1.042532844
ENSG00000148942	SLC5A12 subnetwork	0.36717792	1.04257397
MP:0001006	abnormal retinal cone cell morphology	0.9976002	1.042584148
MP:0001290	delayed eyelid opening	0.36758009	1.042601893
GO:0003071	renal system process involved in regulation of systemic arte	0.99757483	1.042623426
MP:0005431	decreased oocyte number	0.36732134	1.0426445
MP:0004363	stria vascularis degeneration	0.36744146	1.042657005
ENSG00000121957	GPSM2 subnetwork	0.99755877	1.042677188

GO:0003156	regulation of organ formation	0.99754944	1.042745439
REACTOME_NEUROTRANSMIT	REACTOME_NEUROTRANSMITTER_RELEASE_CYCLE	0.99754292	1.042802838
ENSG00000187837	HIST1H1C subnetwork	0.36793275	1.04282957
MP:0000292	distended pericardium	0.36730565	1.042836427
ENSG00000188976	NOC2L subnetwork	0.36817714	1.042862654
GO:0005921	gap junction	0.99753069	1.042863867
GO:0019048	virus-host interaction	0.36788744	1.042866795
GO:0042640	anagen	0.99751382	1.042932146
ENSG00000035928	RFC1 subnetwork	0.36815417	1.042957746
MP:0009546	absent gastric milk in neonates	0.9975093	1.042996813
KEGG_GLYCOSAMINOGLYCAN_	KEGG_GLYCOSAMINOGLYCAN_BIOSYNTHESIS_KERATAN_SI	0.36786832	1.043039197
GO:0001774	microglial cell activation	0.99749731	1.043061491
GO:0000725	recombinational repair	0.36810759	1.043072173
MP:0003216	absence seizures	0.99746919	1.043100826
GO:0004016	adenylate cyclase activity	0.99746286	1.04316552
GO:0016407	acetyltransferase activity	0.36830075	1.043172613
MP:0001292	abnormal lens vesicle development	0.99745001	1.043222979
ENSG00000135845	PIGC subnetwork	0.36867066	1.043254962
REACTOME_ABC:FAMILY_PRO	REACTOME_ABC:FAMILY_PROTEINS_MEDIATED_TRANSPOR	0.36893433	1.043269786
MP:0004753	abnormal miniature excitatory postsynaptic currents	0.99743849	1.043276824
ENSG00000131153	GINS2 subnetwork	0.36848688	1.043300559
GO:0046520	sphingoid biosynthetic process	0.99743566	1.04334879
MP:0001473	reduced long term potentiation	0.99742019	1.043409898
ENSG00000141030	COPS3 subnetwork	0.3687514	1.043410405
GO:0043596	nuclear replication fork	0.36846918	1.043434246
ENSG00000168924	LETM1 subnetwork	0.36863254	1.043436777
ENSG00000188170	ENSG00000188170 subnetwork	0.36893343	1.043461094
GO:0014888	striated muscle adaptation	0.99741278	1.043471014
MP:0004087	abnormal muscle fiber morphology	0.99738519	1.043506776
ENSG00000101856	PGRMC1 subnetwork	0.36889247	1.043565787
GO:0048675	axon extension	0.99737885	1.043575156
ENSG00000065613	SLK subnetwork	0.36914885	1.043608009
GO:0009953	dorsal/ventral pattern formation	0.99737049	1.043639922
GO:0005230	extracellular ligand-gated ion channel activity	0.99736496	1.043701073
GO:0035690	cellular response to drug	0.99735756	1.043776731
GO:0060251	regulation of glial cell proliferation	0.99735457	1.043848775
GO:0007612	learning	0.99734994	1.043917204
MP:0001071	abnormal facial nerve morphology	0.9973401	1.043992894
ENSG00000102781	KATNAL1 subnetwork	0.99731511	1.044054093
ENSG00000139343	SNRPF subnetwork	0.36945794	1.044072363
ENSG00000134697	GNL2 subnetwork	0.36938048	1.044109721
GO:0003158	endothelium development	0.99731248	1.044129804
GO:0044062	regulation of excretion	0.99731148	1.044205526
ENSG00000101082	SLA2 subnetwork	0.36957852	1.044227439
GO:0035113	embryonic appendage morphogenesis	0.99730725	1.044277633
GO:0030326	embryonic limb morphogenesis	0.99730725	1.044353376
MP:0003072	abnormal metatarsal bone morphology	0.99729775	1.04441825
GO:0097061	dendritic spine organization	0.99729375	1.044490388
GO:0060997	dendritic spine morphogenesis	0.99729375	1.044566164
ENSG00000139323	POC1B subnetwork	0.36978264	1.044594075
GO:0001508	regulation of action potential	0.99725785	1.044609301
ENSG00000135744	AGT subnetwork	0.99725299	1.044685097
GO:0005539	glycosaminoglycan binding	0.99725103	1.044760903

GO:0060998	regulation of dendritic spine development	0.99724852	1.044822206
ENSG00000006744	ELAC2 subnetwork	0.99724051	1.044890776
ENSG00000168243	GNG4 subnetwork	0.99723302	1.044959355
GO:0043195	terminal button	0.99719491	1.044995282
GO:0032403	protein complex binding	0.36997187	1.045018273
GO:0009583	detection of light stimulus	0.99718709	1.045063879
GO:0002089	lens morphogenesis in camera-type eye	0.99718025	1.045128857
MP:0009745	abnormal behavioral response to xenobiotic	0.99716592	1.045186583
GO:0060008	Sertoli cell differentiation	0.37028911	1.045252739
GO:0035815	positive regulation of renal sodium excretion	0.99715837	1.045255209
REACTOME_OTHER_SEMAPHO	REACTOME_OTHER_SEMAPHORIN_INTERACTIONS	0.99714247	1.045312954
GO:0045921	positive regulation of exocytosis	0.99714146	1.045388861
GO:0048545	response to steroid hormone stimulus	0.3702821	1.045405613
GO:0030313	cell envelope	0.99713507	1.045457516
ENSG00000158486	DNAH3 subnetwork	0.37041744	1.045493851
GO:0008585	female gonad development	0.37114917	1.045521672
GO:0044462	external encapsulating structure part	0.99713507	1.045533445
GO:0033002	muscle cell proliferation	0.37026751	1.045577774
GO:0006906	vesicle fusion	0.99713271	1.045605752
ENSG00000103152	MPG subnetwork	0.37019754	1.045644231
ENSG00000198569	SLC34A3 subnetwork	0.99712579	1.045681703
GO:0043280	positive regulation of cysteine-type endopeptidase activity	0.37113983	1.04570305
GO:0060043	regulation of cardiac muscle cell proliferation	0.99711778	1.045732239
ENSG00000163347	CLDN1 subnetwork	0.37130274	1.045762224
REACTOME_FGFR_LIGAND_BI	REACTOME_FGFR_LIGAND_BINDING_AND_ACTIVATION	0.99710827	1.045804577
MP:0005205	abnormal eye anterior chamber morphology	0.99709895	1.045873293
REACTOME_SYNTHESIS_SECRE	REACTOME_SYNTHESIS_SECRETION_AND_INACTIVATION_	0.99705421	1.04589479
GO:2001056	positive regulation of cysteine-type endopeptidase activity	0.37113983	1.045903684
ENSG00000137203	TFAP2A subnetwork	0.99704445	1.045956256
ENSG00000154229	PRKCA subnetwork	0.37111297	1.045998849
MP:0011108	partial embryonic lethality during organogenesis	0.37147094	1.046021856
ENSG00000070018	LRP6 subnetwork	0.99704135	1.046024998
GO:0031234	extrinsic to internal side of plasma membrane	0.99699729	1.046039244
ENSG00000154429	C1orf96 subnetwork	0.99697596	1.04607893
ENSG00000092054	MYH7 subnetwork	0.99697364	1.04615133
ENSG00000108107	RPL28 subnetwork	0.37110844	1.046190019
MP:0004610	small vertebrae	0.99697127	1.046216472
MP:0009845	abnormal neural crest cell morphology	0.99696633	1.046281623
MP:0001683	absent mesoderm	0.37109089	1.046314072
GO:0010662	regulation of striated muscle cell apoptotic process	0.99696284	1.046357688
GO:0006817	phosphate ion transport	0.99695943	1.046419223
ENSG00000148308	GTF3C5 subnetwork	0.37085908	1.046455331
REACTOME_BASE:FREE_SUGA	REACTOME_BASE:FREE_SUGAR:PHOSPHATE_REMOVAL_VI	0.37107228	1.046476575
GO:0048278	vesicle docking	0.9969588	1.046491675
GO:0005234	extracellular-glutamate-gated ion channel activity	0.99694902	1.0465605
REACTOME_FGFR3_LIGAND_B	REACTOME_FGFR3_LIGAND_BINDING_AND_ACTIVATION	0.99693899	1.046622064
ENSG00000188739	RBM34 subnetwork	0.37104844	1.046629537
MP:0008997	increased blood osmolality	0.37194734	1.046666028
REACTOME_FGFR3C_LIGAND_	REACTOME_FGFR3C_LIGAND_BINDING_AND_ACTIVATION	0.99693899	1.046698182
GO:0004252	serine-type endopeptidase activity	0.37098493	1.046705724
GO:0060996	dendritic spine development	0.99686229	1.046726797
GO:0051918	negative regulation of fibrinolysis	0.99692721	1.046759764
ENSG00000133112	TPT1 subnetwork	0.99683237	1.046766567

ENSG00000073921	PICALM subnetwork	0.37184979	1.046808511
ENSG00000198929	NOS1AP subnetwork	0.99683072	1.046835443
ENSG00000170606	HSPA4 subnetwork	0.37194465	1.046847451
GO:0048934	peripheral nervous system neuron differentiation	0.99682611	1.046911604
GO:0048935	peripheral nervous system neuron development	0.99682611	1.046987776
MP:0009969	abnormal cerebral cortex pyramidal cell morphology	0.99679987	1.047042131
GO:0021513	spinal cord dorsal/ventral patterning	0.99679629	1.047107408
ENSG00000173636	ENSG00000173636 subnetwork	0.99678754	1.047169056
GO:0048284	organelle fusion	0.99678637	1.047245269
GO:0001505	regulation of neurotransmitter levels	0.99677459	1.047310576
MP:0000743	muscle spasm	0.99674119	1.047335857
ENSG00000174021	GNG5 subnetwork	0.99670766	1.047346582
GO:0019206	nucleoside kinase activity	0.99670328	1.047422831
ENSG00000196510	ANAPC7 subnetwork	0.99669432	1.04749909
GO:0007080	mitotic metaphase plate congression	0.99668816	1.047560798
GO:0031290	retinal ganglion cell axon guidance	0.99667789	1.047626156
MP:0000243	myoclonus	0.99666866	1.047702447
GO:0008045	motor axon guidance	0.99664671	1.0477569
ENSG00000111669	TPI1 subnetwork	0.99664295	1.047825929
ENSG00000122133	PAEP subnetwork	0.99663434	1.047880399
GO:0060560	developmental growth involved in morphogenesis	0.99662195	1.047945804
KEGG_NEUROACTIVE_LIGAND_KEGG_NEUROACTIVE_LIGAND_RECEPTOR_INTERACTION		0.99661877	1.048014861
GO:0000940	condensed chromosome outer kinetochore	0.9966154	1.048091214
GO:0043101	purine-containing compound salvage	0.99661054	1.048160291
GO:0006775	fat-soluble vitamin metabolic process	0.37280012	1.048162328
GO:0035587	purinergic receptor signaling pathway	0.99659354	1.048225736
GO:0017048	Rho GTPase binding	0.37277354	1.048257706
ENSG00000197746	PSAP subnetwork	0.37289299	1.048267943
GO:0035813	regulation of renal sodium excretion	0.99658805	1.048298477
ENSG00000162298	SYVN1 subnetwork	0.37257442	1.048304598
REACTOME_ACTIVATION_OF_REACTOME_ACTIVATION_OF_CHAPERONE_GENES_BY_XBP1		0.37273226	1.048333972
GO:0035812	renal sodium excretion	0.99658805	1.048374872
GO:0034508	centromere complex assembly	0.99656817	1.048425771
GO:0007096	regulation of exit from mitosis	0.99656395	1.048491254
GO:0042157	lipoprotein metabolic process	0.37272063	1.048496457
GO:0004970	ionotropic glutamate receptor activity	0.99656205	1.048560391
GO:0014013	regulation of gliogenesis	0.99654876	1.048614958
REACTOME_METABOLISM_OF_REACTOME_METABOLISM_OF_NITRIC_OXIDE		0.99654671	1.04868776
REACTOME_ENOS_ACTIVATION_OF_REACTOME_ENOS_ACTIVATION_AND_REGULATION		0.99654671	1.048764217
GO:0009948	anterior/posterior axis specification	0.99654404	1.048833394
MP:0002878	abnormal corticospinal tract morphology	0.99653428	1.048891644
MP:0002557	abnormal social/conspecific interaction	0.99651565	1.048957194
ENSG00000090621	PABPC4 subnetwork	0.37331314	1.049005356
GO:0042312	regulation of vasodilation	0.99650602	1.049030047
GO:0021517	ventral spinal cord development	0.99650433	1.04910291
ENSG00000140284	SLC27A2 subnetwork	0.37320113	1.049110218
GO:0030224	monocyte differentiation	0.37328689	1.04912952
GO:0050907	detection of chemical stimulus involved in sensory percepti	0.99649995	1.049179431
ENSG00000184343	SRPK3 subnetwork	0.99648113	1.049215844
GO:2000146	negative regulation of cell motility	0.99645997	1.049266851
ENSG00000171867	PRNP subnetwork	0.9964595	1.049343401
ENSG00000160999	SH2B2 subnetwork	0.37363794	1.049388262
ENSG00000100285	NEFH subnetwork	0.37448319	1.049389662

GO:0030177	positive regulation of Wnt receptor signaling pathway	0.99645176	1.049419962
GO:0005796	Golgi lumen	0.37384091	1.049464934
GO:0016601	Rac protein signal transduction	0.99643822	1.049485589
ENSG00000158796	DEDD subnetwork	0.37361994	1.049502868
GO:0005245	voltage-gated calcium channel activity	0.99642686	1.049547577
GO:0044409	entry into host	0.3744768	1.049561236
MP:0001157	small seminal vesicle	0.37379531	1.049569954
ENSG00000121083	DYNLL2 subnetwork	0.99641623	1.049594979
GO:0016579	protein deubiquitination	0.37359727	1.049607956
ENSG00000077235	GTF3C1 subnetwork	0.37466755	1.049609152
GO:0060828	regulation of canonical Wnt receptor signaling pathway	0.99641014	1.049667932
MP:0004131	abnormal embryonic cilium morphology	0.37462965	1.049704424
GO:0016339	calcium-dependent cell-cell adhesion	0.99640015	1.049740895
ENSG00000173267	SNCG subnetwork	0.37481296	1.049742661
MP:0005317	increased triglyceride level	0.37404395	1.049761177
ENSG00000105655	ISYNA1 subnetwork	0.37412296	1.049761223
GO:0052192	movement in environment of other organism involved in sy	0.3744768	1.049761496
ENSG00000113282	CLINT1 subnetwork	0.99639733	1.049813869
GO:2000826	regulation of heart morphogenesis	0.99638923	1.049886853
ENSG00000170927	PKHD1 subnetwork	0.99635611	1.049919696
GO:0051828	entry into other organism involved in symbiotic interaction	0.3744768	1.049961832
MP:0005241	abnormal retinal ganglion layer morphology	0.99634538	1.049981748
GO:0021987	cerebral cortex development	0.99633751	1.05005111
ENSG00000125968	ID1 subnetwork	0.9963325	1.050120482
GO:0051806	entry into cell of other organism involved in symbiotic inter	0.3744768	1.050162245
GO:0001976	neurological system process involved in regulation of syster	0.99632806	1.050189864
GO:0031683	G-protein beta/gamma-subunit complex binding	0.99632193	1.050255605
GO:0050931	pigment cell differentiation	0.99631751	1.050317704
GO:0007266	Rho protein signal transduction	0.37503641	1.050333524
GO:0030260	entry into host cell	0.3744768	1.050362734
ENSG00000100387	RBX1 subnetwork	0.37432802	1.050362872
MP:0004139	abnormal gastric parietal cell morphology	0.37642526	1.05037023
GO:0042311	vasodilation	0.9963146	1.050383464
REACTOME_FACILITATIVE_NA: REACTOME_FACILITATIVE_NA:INDEPENDENT_GLUCOSE_TF		0.37621735	1.050389438
ENSG00000154727	GABPA subnetwork	0.37654492	1.050427107
GO:0007157	heterophilic cell-cell adhesion	0.9963103	1.05046019
ENSG00000164587	RPS14 subnetwork	0.37638751	1.050493733
ENSG00000186676	ENSG00000186676 subnetwork	0.37618894	1.050494015
GO:0010658	striated muscle cell apoptotic process	0.99630262	1.050518665
ENSG00000078699	CBFA2T2 subnetwork	0.37515359	1.050543064
ENSG00000131236	CAP1 subnetwork	0.37522797	1.050562012
GO:0052126	movement in host environment	0.3744768	1.0505633
ENSG00000083896	YTHDC1 subnetwork	0.37634339	1.050569801
REACTOME_SIGNALING_BY_IN REACTOME_SIGNALING_BY_INSULIN_RECEPTOR		0.99629236	1.050584454
GO:0032651	regulation of interleukin-1 beta production	0.37601693	1.050608365
ENSG00000108468	CBX1 subnetwork	0.37582133	1.050618223
GO:0060420	regulation of heart growth	0.99627538	1.050631987
MP:0004220	abnormal peripheral nervous system regeneration	0.3761759	1.050646142
REACTOME_BETA_DEFENSINS REACTOME_BETA_DEFENSINS		0.37572742	1.050656518
ENSG00000126756	UXT subnetwork	0.3759685	1.050665526
GO:0043502	regulation of muscle adaptation	0.37579575	1.050694444
MP:0000813	abnormal hippocampus layer morphology	0.99627181	1.0507051
GO:0010543	regulation of platelet activation	0.99627104	1.050781878

GO:0048745	smooth muscle tissue development	0.99622566	1.050803859
KEGG_LONG_TERM_POTENTIAL	KEGG_LONG_TERM_POTENTIATION	0.37595068	1.05083682
ENSG00000008128	CDK11A subnetwork	0.37572091	1.050837457
GO:0006383	transcription from RNA polymerase III promoter	0.37617395	1.050845847
GO:0021781	glial cell fate commitment	0.99620144	1.050862384
REACTOME_ROLE_OF_SECOND_MESSENGERS_IN_NETRIN	REACTOME_ROLE_OF_SECOND_MESSENGERS_IN_NETRIN	0.99617051	1.050888028
ENSG00000005189	ENSG00000005189 subnetwork	0.37566279	1.050913764
GO:0048708	astrocyte differentiation	0.99615783	1.050953878
GO:0030539	male genitalia development	0.99612441	1.050994152
ENSG00000122126	OCRL subnetwork	0.99612317	1.051070985
ENSG00000082258	CCNT2 subnetwork	0.37564578	1.051085301
GO:0048070	regulation of developmental pigmentation	0.99610929	1.051125896
REACTOME_APOPTOTIC_CLEAVAGE_OF_CELLULAR_PROTEIN	REACTOME_APOPTOTIC_CLEAVAGE_OF_CELLULAR_PROTEIN	0.37552773	1.051161905
ENSG00000114125	RNF7 subnetwork	0.37560058	1.051171205
GO:0007618	mating	0.99610446	1.051195438
GO:0030239	myofibril assembly	0.99609716	1.051257678
GO:0007168	receptor guanylyl cyclase signaling pathway	0.99607393	1.051294333
REACTOME_ADP_SIGNALLING_THROUGH_P2Y_PURINOCYCLE	REACTOME_ADP_SIGNALLING_THROUGH_P2Y_PURINOCYCLE	0.99606679	1.051363902
REACTOME_GLYCOGEN_BREAKDOWN_GLYCOGENOLYSIS	REACTOME_GLYCOGEN_BREAKDOWN_GLYCOGENOLYSIS	0.99605852	1.051433482
ENSG00000164418	GRIK2 subnetwork	0.99601236	1.051448215
ENSG00000078399	HoxA9 subnetwork	0.37694211	1.051451888
GO:0050680	negative regulation of epithelial cell proliferation	0.99599459	1.051506839
ENSG00000096063	SRPK1 subnetwork	0.99593794	1.051525238
GO:0001825	blastocyst formation	0.99593371	1.051598508
ENSG00000141552	ANAPC11 subnetwork	0.99591888	1.05166813
MP:0000454	abnormal jaw morphology	0.99587401	1.051682886
GO:0010470	regulation of gastrulation	0.99585216	1.051723255
MP:0001052	abnormal muscle innervation	0.99581254	1.051738017
GO:0021756	striatum development	0.99580384	1.05180767
KEGG_HYPERTROPHIC_CARDIOMYOPATHY_HCM	KEGG_HYPERTROPHIC_CARDIOMYOPATHY_HCM	0.99579203	1.051870014
GO:0003151	outflow tract morphogenesis	0.9957872	1.051947006
GO:0007213	G-protein coupled acetylcholine receptor signaling pathway	0.99576775	1.05200571
GO:0021795	cerebral cortex cell migration	0.99575309	1.052075403
GO:0009635	response to herbicide	0.99574921	1.052145106
GO:0019201	nucleotide kinase activity	0.99572301	1.052196515
GO:0070325	lipoprotein particle receptor binding	0.99571353	1.052258915
MP:0004136	abnormal tongue muscle morphology	0.99570673	1.052328647
GO:0030100	regulation of endocytosis	0.99570473	1.052398389
ENSG00000198788	MUC2 subnetwork	0.99566695	1.052402226
ENSG00000128524	ATP6V1F subnetwork	0.99566667	1.052479309
ENSG00000182520	ENSG00000182520 subnetwork	0.99566495	1.05255274
ENSG00000106682	EIF4H subnetwork	0.37736624	1.052571157
ENSG00000171549	ENSG00000171549 subnetwork	0.99566495	1.052629844
ENSG00000136238	RAC1 subnetwork	0.37746506	1.052656042
MP:0005216	abnormal pancreatic alpha cell morphology	0.99566483	1.052703297
MP:0005122	increased circulating thyroid-stimulating hormone level	0.37763099	1.05275934
GO:0071549	cellular response to dexamethasone stimulus	0.99565706	1.052773097
GO:0045214	sarcomere organization	0.99561857	1.052809936
ENSG00000177542	SLC25A22 subnetwork	0.99559947	1.052868762
GO:0016810	hydrolase activity, acting on carbon-nitrogen (but not peptide)	0.37788248	1.052937832
ENSG00000162889	MAPKAPK2 subnetwork	0.37761637	1.052940061
GO:0014074	response to purine-containing compound	0.99559873	1.052942254
GO:0019905	syntaxin binding	0.99554983	1.052964456

GO:0007257	activation of JUN kinase activity	0.37775533	1.05301479
GO:0009582	detection of abiotic stimulus	0.99553918	1.053030636
ENSG00000171311	EXOSC1 subnetwork	0.37827457	1.053048665
ENSG00000115750	TAF1B subnetwork	0.3778735	1.053099526
ENSG00000105698	USF2 subnetwork	0.99553863	1.053107821
GO:0021516	dorsal spinal cord development	0.99553771	1.053185017
MP:0003964	abnormal noradrenaline level	0.3782668	1.053229167
GO:0044452	nucleolar part	0.37812974	1.05323039
GO:0030835	negative regulation of actin filament depolymerization	0.37841096	1.05323741
GO:0015874	norepinephrine transport	0.99552864	1.053258559
ENSG00000119541	VPS4B subnetwork	0.99551845	1.053306452
MP:0000102	abnormal nasal bone morphology	0.99550732	1.053361683
GO:0001701	in utero embryonic development	0.37921446	1.053363568
ENSG00000129282	MRM1 subnetwork	0.37824707	1.053409737
ENSG00000188229	TUBB4B subnetwork	0.37810719	1.053411029
ENSG00000168280	KIF5C subnetwork	0.37917706	1.053430353
GO:0060219	camera-type eye photoreceptor cell differentiation	0.9955051	1.053438921
GO:0008343	adult feeding behavior	0.9954646	1.053475838
GO:0043484	regulation of RNA splicing	0.99544442	1.05351276
ENSG00000123064	DDX54 subnetwork	0.37913584	1.053544423
REACTOME_REGULATION_OF_REACTOME_REGULATION_OF_INSULIN_SECRETION		0.99543976	1.053579025
ENSG00000125503	PPP1R12C subnetwork	0.37942064	1.053626747
GO:0010324	membrane invagination	0.99543525	1.053652633
ENSG00000100280	AP1B1 subnetwork	0.37938966	1.05371245
ENSG00000011052	NME2 subnetwork	0.37912647	1.053724712
GO:0006897	endocytosis	0.99543525	1.05372992
MP:0004841	abnormal small intestine crypts of Lieberkuhn morphology	0.38027129	1.053788878
MP:0001404	no spontaneous movement	0.99542212	1.053796215
MP:0005352	small cranium	0.37908729	1.053810514
ENSG00000185049	WHSC2 subnetwork	0.38063642	1.053832392
ENSG00000082458	DLG3 subnetwork	0.99539347	1.053833174
GO:0032981	mitochondrial respiratory chain complex I assembly	0.99538295	1.053899486
GO:0032392	DNA geometric change	0.37890445	1.053907285
ENSG00000152056	AP1S3 subnetwork	0.37904941	1.053943635
ENSG00000082898	XPO1 subnetwork	0.38061732	1.053946129
GO:0010257	NADH dehydrogenase complex assembly	0.99538295	1.053976814
ENSG00000075151	EIF4G3 subnetwork	0.38026199	1.05397813
ENSG00000110801	PSMD9 subnetwork	0.37965375	1.053994334
GO:0061135	endopeptidase regulator activity	0.38013415	1.054026782
MP:0005189	abnormal anogenital distance	0.38078815	1.054048202
GO:0097031	mitochondrial respiratory chain complex I biogenesis	0.99538295	1.054054153
ENSG00000147955	SIGMAR1 subnetwork	0.38022793	1.054063738
GO:0044445	cytosolic part	0.37904059	1.054086266
GO:0060976	coronary vasculature development	0.99535137	1.054087473
ENSG00000099810	MTAP subnetwork	0.37976905	1.054087991
GO:0032508	DNA duplex unwinding	0.37890445	1.054106737
ENSG00000161960	EIF4A1 subnetwork	0.38099173	1.054130598
ENSG00000132842	AP3B1 subnetwork	0.38061631	1.054135268
GO:0052547	regulation of peptidase activity	0.3798613	1.054143855
ENSG00000178053	MLF1 subnetwork	0.99534261	1.054153824
MP:0000460	mandible hypoplasia	0.38055732	1.05415489
ENSG00000166863	TAC3 subnetwork	0.38106168	1.054158043
GO:0002011	morphogenesis of an epithelial sheet	0.38093087	1.054169019

ENSG00000137936	BCAR3 subnetwork	0.37886402	1.054173765
ENSG00000111364	DDX55 subnetwork	0.38012298	1.054216186
ENSG00000109680	TBC1D19 subnetwork	0.99533389	1.054223853
ENSG00000112237	CCNC subnetwork	0.38006558	1.054292453
GO:0006911	phagocytosis, engulfment	0.99532569	1.054293893
ENSG00000111641	NOP2 subnetwork	0.38054002	1.054297022
MP:0001726	abnormal allantois morphology	0.38092534	1.054358057
GO:0006401	RNA catabolic process	0.3811677	1.054364184
GO:0010460	positive regulation of heart rate	0.99532567	1.054371284
MP:0000952	abnormal CNS glial cell morphology	0.37999749	1.054397886
GO:0021885	forebrain cell migration	0.99529337	1.054422992
ENSG00000143537	ADAM15 subnetwork	0.38003545	1.054425363
GO:0045600	positive regulation of fat cell differentiation	0.99527721	1.054471037
MP:0005130	decreased follicle stimulating hormone level	0.38127236	1.054476208
MP:0005236	abnormal olfactory nerve morphology	0.99524854	1.054497063
ENSG00000071054	MAP4K4 subnetwork	0.38152101	1.054520677
ENSG00000172794	RAB37 subnetwork	0.99521237	1.054541449
GO:0006684	sphingomyelin metabolic process	0.3813798	1.054550583
MP:0005498	hyporesponsive to tactile stimuli	0.99518529	1.054589514
ENSG00000159788	RGS12 subnetwork	0.99515656	1.054615554
GO:0000724	double-strand break repair via homologous recombination	0.38147753	1.05463433
MP:0002639	micrognathia	0.99514976	1.054681992
GO:0006140	regulation of nucleotide metabolic process	0.99513076	1.054748439
GO:0000910	cytokinesis	0.99509611	1.054785515
GO:0048593	camera-type eye morphogenesis	0.99507236	1.054818923
ENSG00000156873	PHKG2 subnetwork	0.9950436	1.054878049
ENSG00000066735	KIF26A subnetwork	0.9950403	1.054951877
GO:0000149	SNARE binding	0.9950321	1.055018369
GO:0002028	regulation of sodium ion transport	0.99502115	1.055073848
MP:0003787	abnormal imprinting	0.99501999	1.055151382
GO:0030148	sphingolipid biosynthetic process	0.99498311	1.055173808
GO:0004112	cyclic-nucleotide phosphodiesterase activity	0.38192426	1.055232995
ENSG00000163810	TGM4 subnetwork	0.99497464	1.055240335
ENSG00000113319	RASGRF2 subnetwork	0.38314182	1.055263158
MP:0000229	abnormal megakaryocyte differentiation	0.38233769	1.055312559
GO:0032088	negative regulation of NF-kappaB transcription factor activi	0.38213138	1.055315552
GO:0043174	nucleoside salvage	0.9949736	1.055317898
MP:0001182	lung hemorrhage	0.38321178	1.055318352
ENSG00000099995	SF3A1 subnetwork	0.3822112	1.055370892
GO:0048703	embryonic viscerocranium morphogenesis	0.99496138	1.055377095
ENSG00000174307	PHLDA3 subnetwork	0.38206314	1.05540109
GO:0004091	carboxylesterase activity	0.38192203	1.055421913
ENSG00000132142	ACACA subnetwork	0.38313454	1.05542338
ENSG00000171916	LGALS9C subnetwork	0.38306725	1.055443133
ENSG00000004897	CDC27 subnetwork	0.99495072	1.055443652
GO:0045334	clathrin-coated endocytic vesicle	0.3823073	1.055463763
GO:0051145	smooth muscle cell differentiation	0.9949266	1.055502867
MP:0001539	decreased caudal vertebrae number	0.99491603	1.05554371
GO:0001759	organ induction	0.99491516	1.055621324
ENSG00000170298	LGALS9B subnetwork	0.38306725	1.05564093
GO:0046467	membrane lipid biosynthetic process	0.99489727	1.055673211
GO:0071377	cellular response to glucagon stimulus	0.99486366	1.055692014
GO:0015172	acidic amino acid transmembrane transporter activity	0.99484755	1.055758623

ENSG00000151617	EDNRA subnetwork	0.38269059	1.05575985
GO:0022627	cytosolic small ribosomal subunit	0.99482664	1.055825243
ENSG00000164220	F2RL2 subnetwork	0.38385122	1.055835048
GO:0071260	cellular response to mechanical stimulus	0.38305908	1.0558388
GO:0006688	glycosphingolipid biosynthetic process	0.994809	1.055880839
ENSG00000105141	CASP14 subnetwork	0.3830186	1.055924259
ENSG00000123349	PFDN5 subnetwork	0.38268522	1.055939201
MP:0008267	abnormal hippocampus CA3 region morphology	0.99480394	1.055954833
ENSG00000204394	VARS subnetwork	0.38383027	1.055957725
ENSG00000163814	CDCP1 subnetwork	0.38283614	1.05596511
GO:0001964	startle response	0.99477271	1.055977341
ENSG00000182809	CRIP2 subnetwork	0.38299393	1.056047253
GO:0001709	cell fate determination	0.99476896	1.056051354
ENSG00000133265	HSPBP1 subnetwork	0.38267353	1.056109234
MP:0003755	abnormal palate morphology	0.9947536	1.056110661
REACTOME_ACTIVATION_OF_I	REACTOME_ACTIVATION_OF_KAINATE_RECEPTORS_UPON	0.9947248	1.056151582
ENSG00000096171	VARS subnetwork	0.38383027	1.056155285
GO:0004745	retinol dehydrogenase activity	0.38405721	1.056170531
GO:0031113	regulation of microtubule polymerization	0.99471289	1.056218265
GO:0045725	positive regulation of glycogen biosynthetic process	0.38298964	1.056226557
GO:0001952	regulation of cell-matrix adhesion	0.38381363	1.056287425
GO:0005261	cation channel activity	0.9947081	1.056292317
ENSG00000132872	SYT4 subnetwork	0.99467985	1.05634062
ENSG00000173218	VANGL1 subnetwork	0.38420885	1.056365676
KEGG_ARACHIDONIC_ACID_M	KEGG_ARACHIDONIC_ACID_METABOLISM	0.99467075	1.056403651
ENSG00000060688	SNRNP40 subnetwork	0.38374676	1.056448896
GO:0005604	basement membrane	0.9946689	1.056481413
ENSG00000165731	RET subnetwork	0.383812	1.056485121
MP:0008415	abnormal neurite morphology	0.99465268	1.056533422
MP:0010948	abnormal double-strand DNA break repair	0.38373036	1.056599888
MP:0003730	abnormal photoreceptor inner segment morphology	0.99463871	1.056600162
MP:0009758	impaired behavioral response to cocaine	0.9946175	1.056663231
ENSG00000116984	MTR subnetwork	0.38454178	1.056717115
GO:0007052	mitotic spindle organization	0.99461276	1.056733672
GO:0019005	SCF ubiquitin ligase complex	0.99461003	1.056800442
ENSG00000115211	EIF2B4 subnetwork	0.99458208	1.056852493
ENSG00000007968	E2F2 subnetwork	0.38446418	1.056859813
ENSG00000161618	ALDH16A1 subnetwork	0.38452628	1.056895907
GO:0034637	cellular carbohydrate biosynthetic process	0.38513107	1.056902985
MP:0000585	kinked tail	0.99457618	1.056926646
GO:0060271	cilium morphogenesis	0.38467483	1.056940034
GO:0019233	sensory perception of pain	0.99456861	1.05700081
GO:0001935	endothelial cell proliferation	0.99456503	1.057074985
GO:0019432	triglyceride biosynthetic process	0.38512483	1.057090875
GO:0072089	stem cell proliferation	0.99456108	1.057149171
GO:0045502	dynein binding	0.99451033	1.057175483
GO:0044242	cellular lipid catabolic process	0.38508604	1.057176185
KEGG_PROGESTERONE_MEDIA	KEGG_PROGESTERONE_MEDIATED_OOCYTE_MATURATION	0.99448424	1.057231268
GO:0001504	neurotransmitter uptake	0.99444356	1.057250221
ENSG00000101182	PSMA7 subnetwork	0.38599449	1.057318436
MP:0005028	abnormal trophectoderm morphology	0.99443695	1.057324442
GO:0050858	negative regulation of antigen receptor-mediated signaling	0.38508588	1.05737353
ENSG00000174197	MGA subnetwork	0.38563799	1.057390494

ENSG00000012660	ELOVL5 subnetwork	0.99443266	1.057394989
ENSG00000135624	CCT7 subnetwork	0.38491879	1.057443033
GO:0072531	pyrimidine-containing compound transmembrane transpor	0.38559481	1.0574478
GO:0009798	axis specification	0.99442839	1.057469231
MP:0010954	abnormal cellular respiration	0.38599078	1.057496741
GO:0015672	monovalent inorganic cation transport	0.99438969	1.057499263
ENSG00000106462	EZH2 subnetwork	0.38500638	1.057553688
GO:0050860	negative regulation of T cell receptor signaling pathway	0.38508588	1.057570948
GO:0042304	regulation of fatty acid biosynthetic process	0.99438792	1.057573524
MP:0000161	scoliosis	0.38596992	1.057600596
ENSG00000129991	TNNI3 subnetwork	0.38582573	1.057622065
MP:0009890	cleft secondary palate	0.99438348	1.05764411
ENSG00000172725	CORO1B subnetwork	0.38559303	1.057644975
GO:0007597	blood coagulation, intrinsic pathway	0.99434592	1.057692591
GO:0042036	negative regulation of cytokine biosynthetic process	0.38589677	1.057695174
ENSG00000027075	PRKCH subnetwork	0.38556478	1.057711675
ENSG00000102981	PARD6A subnetwork	0.38548498	1.057713113
GO:0061351	neural precursor cell proliferation	0.99434277	1.057766883
MP:0001454	abnormal cued conditioning behavior	0.99434275	1.057844872
GO:0007269	neurotransmitter secretion	0.99432086	1.057886005
ENSG00000088930	XRN2 subnetwork	0.9942949	1.05791977
MP:0005306	abnormal phalanx morphology	0.9942421	1.057924041
GO:0070374	positive regulation of ERK1 and ERK2 cascade	0.99423605	1.05799469
ENSG00000185008	ROBO2 subnetwork	0.99423515	1.058072725
REACTOME_DEPOLARIZATION_OF_THE_PRESYNAPTIC_TERMINAL	REACTOME_DEPOLARIZATION_OF_THE_PRESYNAPTIC_TERMINAL	0.99422743	1.058147083
MP:0000061	fragile skeleton	0.99421555	1.058214075
ENSG00000023171	GRAMD1B subnetwork	0.38633736	1.058220071
GO:0019865	immunoglobulin binding	0.99419867	1.058284766
GO:0014072	response to isoquinoline alkaloid	0.99419017	1.058351778
GO:0043278	response to morphine	0.99419017	1.058429868
ENSG000000211949	ENSG000000211949 subnetwork	0.99416733	1.058485832
MP:0002063	abnormal learning/memory/conditioning	0.99416611	1.058563944
MP:0002546	mydriasis	0.99410842	1.058631633
GO:0046717	acid secretion	0.99415954	1.058638376
GO:0032266	phosphatidylinositol-3-phosphate binding	0.99408994	1.058702391
GO:0060048	cardiac muscle contraction	0.99407391	1.058754706
REACTOME_CONVERSION_OF_FRC	REACTOME_CONVERSION_FROM_APCCDC20_TO_APCCCI	0.99405674	1.058799646
MP:0002712	increased circulating glucagon level	0.38662439	1.058870067
MP:0002733	abnormal thermal nociception	0.99405571	1.058874123
GO:0021514	ventral spinal cord interneuron differentiation	0.99405393	1.058952304
GO:0030901	midbrain development	0.38671697	1.058980086
MP:0001898	abnormal long term depression	0.99404912	1.059026804
ENSG00000105649	RAB3A subnetwork	0.99403824	1.05909393
GO:0016050	vesicle organization	0.99403288	1.059164759
ENSG00000114019	AMOTL2 subnetwork	0.99403095	1.059235598
GO:0009152	purine ribonucleotide biosynthetic process	0.99402189	1.059302755
GO:0030178	negative regulation of Wnt receptor signaling pathway	0.99400223	1.059347762
ENSG00000104517	UBR5 subnetwork	0.38718789	1.059352919
GO:0009219	pyrimidine deoxyribonucleotide metabolic process	0.99396995	1.059381695
ENSG00000149187	CELFI subnetwork	0.99395843	1.059456265
GO:0007030	Golgi organization	0.38715262	1.059475544
REACTOME_AS PARAGINE_N:LINKED_GLYCOSYLATION	REACTOME_AS PARAGINE_N:LINKED_GLYCOSYLATION	0.38711057	1.059486607
GO:0046839	phospholipid dephosphorylation	0.99384911	1.059490912

GO:0032410	negative regulation of transporter activity	0.99395164	1.059519764
GO:0030949	positive regulation of vascular endothelial growth factor receptor signaling pathway	0.99381823	1.059532254
GO:0014061	regulation of norepinephrine secretion	0.99380236	1.059584688
ENSG00000145391	SETD7 subnetwork	0.38707956	1.059637209
MP:0002799	abnormal passive avoidance behavior	0.99380003	1.05965191
GO:0045494	photoreceptor cell maintenance	0.99378635	1.059704361
MP:0000166	abnormal chondrocyte morphology	0.38702906	1.059713435
MP:0000968	abnormal sensory neuron innervation pattern	0.99377829	1.059778993
GO:0001936	regulation of endothelial cell proliferation	0.99375694	1.059805588
GO:0060173	limb development	0.99373561	1.059876543
GO:0048736	appendage development	0.99373561	1.059954902
GO:0007389	pattern specification process	0.99373121	1.060029575
REACTOME_SIGNAL_AMPLIFICATION	REACTOME_SIGNAL_AMPLIFICATION	0.99372381	1.060096865
GO:0042730	fibrinolysis	0.99370963	1.060167862
GO:0045454	cell redox homeostasis	0.99368068	1.060224079
GO:0005313	L-glutamate transmembrane transporter activity	0.99367452	1.060298794
GO:0045109	intermediate filament organization	0.99355943	1.060329906
GO:0050884	neuromuscular process controlling posture	0.9936304	1.06033284
MP:0000277	abnormal heart shape	0.99350285	1.060345465
GO:0030193	regulation of blood coagulation	0.99347613	1.060379522
GO:0030516	regulation of axon extension	0.99347464	1.060457976
MP:0001575	cyanosis	0.99346254	1.060514243
GO:0033108	mitochondrial respiratory chain complex assembly	0.99344861	1.06056682
ENSG00000152208	GRID2 subnetwork	0.99338619	1.060586102
MP:0001716	abnormal placenta labyrinth morphology	0.38812102	1.060592276
ENSG00000144182	LIPT1 subnetwork	0.99337844	1.060657194
ENSG00000163736	PPBP subnetwork	0.38783302	1.060685746
GO:0032373	positive regulation of sterol transport	0.38808704	1.060705664
GO:0060485	mesenchyme development	0.9933749	1.060731996
ENSG00000079277	MKNK1 subnetwork	0.38792081	1.060739502
GO:0007409	axonogenesis	0.9933221	1.060754996
ENSG00000104973	MED25 subnetwork	0.3885159	1.060767947
ENSG00000113739	STC2 subnetwork	0.99329657	1.060781701
ENSG00000198561	CTNND1 subnetwork	0.38864688	1.060803042
GO:0046463	acylglycerol biosynthetic process	0.38833953	1.060820341
GO:0006109	regulation of carbohydrate metabolic process	0.38773245	1.06082915
GO:0016836	hydro-lyase activity	0.38800556	1.060830392
ENSG00000174227	PIGG subnetwork	0.38781625	1.060836431
KEGG_LONG_TERM_DEPRESSION	KEGG_LONG_TERM_DEPRESSION	0.99328595	1.060852828
GO:0061001	regulation of dendritic spine morphogenesis	0.99323322	1.060853631
GO:0010596	negative regulation of endothelial cell migration	0.99321059	1.060895158
GO:0032376	positive regulation of cholesterol transport	0.38808704	1.060902675
GO:0050673	epithelial cell proliferation	0.99311673	1.060911582
ENSG00000197879	MYO1C subnetwork	0.38884497	1.060938079
ENSG00000163464	CXCR1 subnetwork	0.38851186	1.060946197
ENSG00000166900	STX3 subnetwork	0.99320963	1.060966309
GO:0033555	multicellular organismal response to stress	0.99310442	1.060979042
GO:0015108	chloride transmembrane transporter activity	0.38894709	1.060991659
GO:0046460	neutral lipid biosynthetic process	0.38833953	1.061017264
REACTOME_G_BETAGAMMA_SIGNALING_THROUGH_PLCA	REACTOME_G_BETAGAMMA_SIGNALING_THROUGH_PLCA	0.99307678	1.061031699
GO:0006839	mitochondrial transport	0.38901995	1.061063751
GO:0007004	telomere maintenance via telomerase	0.3891491	1.061078177
MP:0002734	abnormal mechanical nociception	0.99305837	1.061095474

MP:0003235	abnormal alisphenoid bone morphology	0.99302761	1.061133333
ENSG00000113140	SPARC subnetwork	0.38850686	1.061133791
GO:0000421	autophagic vacuole membrane	0.38884085	1.061134804
ENSG00000213380	COG8 subnetwork	0.38913084	1.061154345
GO:0006750	glutathione biosynthetic process	0.99301015	1.061204534
ENSG00000125944	HNRNPR subnetwork	0.389317	1.061205779
REACTOME_NUCLEOTIDE:LIKE_REACTOME_NUCLEOTIDE:LIKE_PURINERGIC_RECEPTORS		0.99300735	1.061275745
MP:0001045	abnormal enteric ganglia morphology	0.99300735	1.061354375
GO:0044433	cytoplasmic vesicle part	0.99300498	1.061433017
GO:0072341	modified amino acid binding	0.99300354	1.061507966
ENSG00000107937	GTPBP4 subnetwork	0.3895881	1.061534901
GO:0009163	nucleoside biosynthetic process	0.99299667	1.06157922
ENSG00000065183	WDR3 subnetwork	0.38953459	1.061601852
MP:0002842	increased systemic arterial blood pressure	0.99297542	1.061628252
GO:0032105	negative regulation of response to extracellular stimulus	0.99297428	1.061699526
GO:0032108	negative regulation of response to nutrient levels	0.99297428	1.061778223
GO:0051592	response to calcium ion	0.99296405	1.061849518
ENSG00000172757	CFL1 subnetwork	0.3897288	1.06185672
MP:0001777	abnormal body temperature homeostasis	0.99294772	1.061909704
GO:0004114	3',5'-cyclic-nucleotide phosphodiesterase activity	0.38980288	1.06191005
GO:0009880	embryonic pattern specification	0.99288488	1.061918001
GO:0050321	tau-protein kinase activity	0.9928795	1.06199303
REACTOME_ACTIVATION_OF_(REACTOME_ACTIVATION_OF_GENES_BY_ATF4		0.99287111	1.062064363
ENSG00000108587	GOSR1 subnetwork	0.38992578	1.062083642
GO:2000311	regulation of alpha-amino-3-hydroxy-5-methyl-4-isoxazole	0.99285752	1.062120875
MP:0009888	palatal shelves fail to meet at midline	0.99283324	1.062169979
GO:0048589	developmental growth	0.99281842	1.062226507
GO:0048762	mesenchymal cell differentiation	0.99281059	1.06229417
MP:0005606	increased bleeding time	0.99277587	1.062343298
GO:0007289	spermatid nucleus differentiation	0.99272591	1.062347923
MP:0009764	decreased sensitivity to induced morbidity/mortality	0.99271407	1.062419319
GO:0008188	neuropeptide receptor activity	0.99267385	1.062446209
GO:0007616	long-term memory	0.99266395	1.062510203
MP:0000812	abnormal dentate gyrus morphology	0.99264919	1.062570496
ENSG00000155760	FZD7 subnetwork	0.3901874	1.062571693
GO:0060134	prepulse inhibition	0.99264322	1.062630798
REACTOME_FRS2:MEDIATED_(REACTOME_FRS2:MEDIATED_CASCADE		0.99263393	1.062705952
GO:0021515	cell differentiation in spinal cord	0.99254693	1.062741241
ENSG00000144021	CIAO1 subnetwork	0.99261393	1.062751429
ENSG00000115254	ENSG00000115254 subnetwork	0.99253361	1.062797862
ENSG00000124120	TTPAL subnetwork	0.99252749	1.062876763
GO:0031623	receptor internalization	0.99252356	1.062951964
GO:0035282	segmentation	0.99250248	1.062993763
GO:0001649	osteoblast differentiation	0.99248521	1.063061558
MP:0005584	abnormal enzyme/coenzyme activity	0.39041021	1.06308731
MP:0005106	abnormal incus morphology	0.99246691	1.063114511
GO:0005891	voltage-gated calcium channel complex	0.99246474	1.063186038
ENSG00000120699	EXOSC8 subnetwork	0.3905406	1.063205104
ENSG00000160948	VPS28 subnetwork	0.99245852	1.063253862
ENSG00000131795	RBM8A subnetwork	0.39065437	1.063304364
MP:0002110	abnormal digit morphology	0.99244663	1.063314269
GO:0045665	negative regulation of neuron differentiation	0.99243031	1.063363542
GO:0072006	nephron development	0.9923755	1.063371963

MP:0004173	abnormal intervertebral disk morphology	0.99235498	1.063432392
ENSG00000197969	VPS13A subnetwork	0.39076858	1.063468294
GO:0090175	regulation of establishment of planar polarity	0.99233231	1.06349283
GO:0060071	Wnt receptor signaling pathway, planar cell polarity pathwa	0.99233231	1.063571853
MP:0003205	testicular atrophy	0.99232844	1.063643457
MP:0001651	necrosis	0.9922586	1.063648187
GO:0035240	dopamine binding	0.99223407	1.063690078
GO:0072378	blood coagulation, fibrin clot formation	0.99222768	1.06375799
GO:0055078	sodium ion homeostasis	0.99207583	1.063831685
GO:0009247	glycolipid biosynthetic process	0.99222355	1.063833346
MP:0001092	abnormal trigeminal ganglion morphology	0.99204893	1.063892193
GO:0030514	negative regulation of BMP signaling pathway	0.99221179	1.063897562
MP:0002007	increased cellular sensitivity to gamma-irradiation	0.39100842	1.063946396
GO:0006369	termination of RNA polymerase II transcription	0.99204706	1.063971299
MP:0002114	abnormal axial skeleton morphology	0.99202408	1.064013236
GO:0051937	catecholamine transport	0.99201907	1.064092363
ENSG00000159459	UBR1 subnetwork	0.39112652	1.064137867
ENSG00000132639	SNAP25 subnetwork	0.99200821	1.064160345
MP:0002907	abnormal parturition	0.99196214	1.064191149
MP:0000298	absent atrioventricular cushions	0.99195135	1.064259149
ENSG00000151623	NR3C2 subnetwork	0.39122851	1.064273836
ENSG00000142798	HSPG2 subnetwork	0.99191799	1.064312281
GO:0016782	transferase activity, transferring sulfur-containing groups	0.99190298	1.064376581
GO:0033762	response to glucagon stimulus	0.99189977	1.06445205
REACTOME_RNA_POLYMERAS	REACTOME_RNA_POLYMERASE_III_CHAIN_ELONGATION	0.3918315	1.064504521
GO:0043252	sodium-independent organic anion transport	0.99188267	1.064512649
GO:0001676	long-chain fatty acid metabolic process	0.99188224	1.06459186
REACTOME_CELL:EXTRACELLU	REACTOME_CELL:EXTRACELLULAR_MATRIX_INTERACTIONS	0.39163657	1.06463257
GO:0030312	external encapsulating structure	0.99185113	1.064633874
KEGG_RENIN_ANGIOTENSIN_S	KEGG_RENIN_ANGIOTENSIN_SYSTEM	0.991814	1.064679616
GO:0060363	cranial suture morphogenesis	0.9917877	1.06468443
GO:0032984	macromolecular complex disassembly	0.39182971	1.064700997
MP:0002667	decreased circulating aldosterone level	0.39155757	1.064718375
GO:0097094	craniofacial suture morphogenesis	0.9917877	1.064763677
ENSG00000134769	DTNA subnetwork	0.99176613	1.064813161
ENSG00000069869	NEDD4 subnetwork	0.39152806	1.064831917
GO:0016627	oxidoreductase activity, acting on the CH-CH group of dono	0.39182403	1.064879084
ENSG00000044446	PHKA2 subnetwork	0.99176535	1.064892429
ENSG00000139970	RTN1 subnetwork	0.99176311	1.064971709
ENSG00000168286	THAP11 subnetwork	0.3914977	1.064991687
ENSG00000148965	SAA4 subnetwork	0.99171723	1.06499516
GO:0048483	autonomic nervous system development	0.99170988	1.065067014
MP:0002696	decreased circulating glucagon level	0.99169648	1.065127709
MP:0005642	decreased mean corpuscular hemoglobin concentration	0.99168986	1.065203307
GO:0007617	mating behavior	0.99167669	1.065275192
GO:0007631	feeding behavior	0.99166535	1.065347088
GO:2000177	regulation of neural precursor cell proliferation	0.99165997	1.065426443
MP:0002689	abnormal molar morphology	0.99165341	1.065498361
GO:0009988	cell-cell recognition	0.39262669	1.065556682
GO:0010453	regulation of cell fate commitment	0.99165227	1.06557774
ENSG00000184708	EIF4ENIF1 subnetwork	0.39237852	1.065596753
ENSG00000114503	NCBP2 subnetwork	0.39249441	1.065600221
GO:0004435	phosphatidylinositol phospholipase C activity	0.99161341	1.065604977

MP:0008026	abnormal brain white matter morphology	0.39233189	1.065627306
GO:0031901	early endosome membrane	0.99159192	1.065654571
GO:0042982	amyloid precursor protein metabolic process	0.3925984	1.065661873
REACTOME_SYNTHESIS_OF_BILE_ACIDS_AND_BILE_SALTS	REACTOME_SYNTHESIS_OF_BILE_ACIDS_AND_BILE_SALTS	0.39273052	1.06569296
GO:0045685	regulation of glial cell differentiation	0.99159057	1.065733979
ENSG00000131503	ANKHD1 subnetwork	0.39249277	1.065787532
MP:0004113	abnormal aortic arch morphology	0.99156788	1.065805947
GO:0051952	regulation of amine transport	0.9915668	1.065885378
GO:0007602	phototransduction	0.99156476	1.065964821
GO:0019359	nicotinamide nucleotide biosynthetic process	0.99155757	1.066033095
MP:0005558	decreased creatinine clearance	0.99153527	1.066090198
GO:0061326	renal tubule development	0.99152291	1.066136126
ENSG00000107186	MPDZ subnetwork	0.99150544	1.066182062
GO:0043269	regulation of ion transport	0.99150535	1.066261557
ENSG00000167711	SERPINF2 subnetwork	0.99150184	1.066329878
GO:0051271	negative regulation of cellular component movement	0.99144085	1.06634601
MP:0000757	herniated abdominal wall	0.39311356	1.066390271
MP:0003460	decreased fear-related response	0.99143563	1.066414349
GO:0045596	negative regulation of cell differentiation	0.39433412	1.066458486
GO:0060401	cytosolic calcium ion transport	0.39428929	1.066479882
GO:0021545	cranial nerve development	0.99142746	1.066482697
ENSG00000168438	CDC40 subnetwork	0.39401567	1.066492002
GO:0030594	neurotransmitter receptor activity	0.9914026	1.06652495
ENSG00000134184	GSTM1 subnetwork	0.39408368	1.066534926
GO:0045351	type I interferon biosynthetic process	0.99140061	1.066600776
ENSG00000206268	RDBP subnetwork	0.39384742	1.066629875
ENSG00000120899	PTK2B subnetwork	0.39397618	1.066632953
ENSG00000147133	TAF1 subnetwork	0.39420793	1.066651351
MP:0004485	increased response of heart to induced stress	0.99137397	1.066672883
GO:0032846	positive regulation of homeostatic process	0.39428516	1.066675854
GO:0061387	regulation of extent of cell growth	0.99137027	1.066741271
GO:0032039	integrator complex	0.39395679	1.066746367
GO:0015030	Cajal body	0.39356475	1.066792488
ENSG00000111664	GNB3 subnetwork	0.99134988	1.066798478
ENSG00000206357	RDBP subnetwork	0.39384742	1.066826127
GO:0032965	regulation of collagen biosynthetic process	0.99132113	1.066855693
GO:0019882	antigen processing and presentation	0.39351447	1.066878453
GO:0010761	fibroblast migration	0.39368878	1.066918262
GO:0003197	endocardial cushion development	0.99131794	1.066931572
GO:0051926	negative regulation of calcium ion transport	0.99118293	1.0669341
MP:0003960	increased lean body mass	0.99127022	1.06694403
GO:0021954	central nervous system neuron development	0.9911751	1.067013733
ENSG00000204356	RDBP subnetwork	0.39384742	1.067022451
ENSG00000096433	ITPR3 subnetwork	0.3934919	1.067028919
MP:0001289	persistence of hyaloid vascular system	0.39473436	1.06705526
ENSG00000169679	BUB1 subnetwork	0.99116922	1.067070986
GO:0017119	Golgi transport complex	0.39378982	1.067071599
KEGG_PROTEIN_EXPORT	KEGG_PROTEIN_EXPORT	0.39468754	1.067122659
ENSG00000105290	APLP1 subnetwork	0.99116476	1.06714691
MP:0003043	hypoalgesia	0.99103726	1.067164402
KEGG_SELENOAMINO_ACID_METABOLISM	KEGG_SELENOAMINO_ACID_METABOLISM	0.39347463	1.06717944
GO:0022890	inorganic cation transmembrane transporter activity	0.99115124	1.067204181
MP:0006007	abnormal basal ganglion morphology	0.99103386	1.067244083

GO:0015145	monosaccharide transmembrane transporter activity	0.39465452	1.067245179
REACTOME_RECRUITMENT_OF	REACTOME_RECRUITMENT_OF_NUMA_TO_MITOTIC_CEN	0.99102035	1.067305108
ENSG00000100479	POLE2 subnetwork	0.39486993	1.067336637
ENSG00000206466	GABBR1 subnetwork	0.99098886	1.06735494
ENSG00000204681	GABBR1 subnetwork	0.99098886	1.067434653
MP:0008263	abnormal hippocampus CA1 region morphology	0.99086255	1.067440992
GO:0001573	ganglioside metabolic process	0.99085127	1.067505789
ENSG00000206511	GABBR1 subnetwork	0.99098886	1.067514377
MP:0004249	abnormal crista ampullaris morphology	0.99084967	1.067585537
GO:0000236	mitotic prometaphase	0.99082252	1.067642884
ENSG00000148180	GSN subnetwork	0.3950863	1.067700496
MP:0002184	abnormal innervation	0.99082168	1.067722654
ENSG00000173598	NUDT4 subnetwork	0.99079831	1.067768811
MP:0004423	abnormal squamosal bone morphology	0.99079511	1.067848603
ENSG00000119888	EPCAM subnetwork	0.99064584	1.067916137
MP:0002651	abnormal sciatic nerve morphology	0.99078988	1.067928406
MP:0002765	short fibula	0.99075055	1.067967115
GO:0007420	brain development	0.99063705	1.067981014
MP:0004608	abnormal cervical axis morphology	0.99063205	1.068053375
GO:0005416	cation:amino acid symporter activity	0.99061814	1.068118272
MP:0009009	absent estrous cycle	0.39534998	1.068165138
GO:0051233	spindle midzone	0.99061116	1.068186916
GO:0044236	multicellular organismal metabolic process	0.99060356	1.068248093
ENSG00000213611	ENSG00000213611 subnetwork	0.99054322	1.068283108
MP:0004418	small parietal bone	0.99052757	1.068336823
MP:0003727	abnormal retinal layer morphology	0.99048279	1.068375589
GO:0050854	regulation of antigen receptor-mediated signaling pathway	0.39551324	1.068400294
MP:0003634	abnormal glial cell morphology	0.39560265	1.068442773
MP:0002064	seizures	0.99047406	1.068444278
MP:0004263	abnormal limb posture	0.99045274	1.068501758
GO:0072080	nephron tubule development	0.9904126	1.068533064
ENSG00000164930	FZD6 subnetwork	0.39710168	1.068537477
ENSG00000129965	INS-IGF2 subnetwork	0.39808113	1.068553975
ENSG00000177283	FZD8 subnetwork	0.39724129	1.068576389
MP:0004022	abnormal cone electrophysiology	0.99038498	1.068579337
ENSG00000130779	CLIP1 subnetwork	0.39732429	1.068609538
ENSG00000118971	CCND2 subnetwork	0.39719368	1.068616341
GO:0032098	regulation of appetite	0.99037854	1.068655544
ENSG00000069275	NUCKS1 subnetwork	0.39806235	1.068685026
MP:0005545	abnormal lens development	0.99034639	1.068686869
GO:0045840	positive regulation of mitosis	0.39800277	1.068715797
ENSG00000111432	FZD10 subnetwork	0.39710168	1.068732858
MP:0001435	no suckling reflex	0.99033361	1.068755612
ENSG00000125651	GTF2F1 subnetwork	0.39744826	1.06878882
GO:0021543	pallium development	0.99030842	1.068798174
ENSG00000106571	GLI3 subnetwork	0.39750829	1.068812785
GO:0005680	anaphase-promoting complex	0.99027772	1.068863194
GO:0090022	regulation of neutrophil chemotaxis	0.39588012	1.068879516
ENSG00000147854	UHRF2 subnetwork	0.39793354	1.068886861
ENSG00000206427	PRRC2A subnetwork	0.39785262	1.06890856
GO:0051785	positive regulation of nuclear division	0.39800277	1.068910783
GO:0009303	rRNA transcription	0.39708913	1.068919166
REACTOME_PRESYNAPTIC_FU	REACTOME_PRESYNAPTIC_FUNCTION_OF_KAINATE_RECEF	0.99026369	1.068931966

ENSG00000184371	CSF1 subnetwork	0.39834921	1.068957346
GO:0042288	MHC class I protein binding	0.39608688	1.068991751
MP:0006069	abnormal retinal neuronal layer morphology	0.99025794	1.069008234
REACTOME_DCC_MEDIATED_ATT	REACTOME_DCC_MEDIATED_ATTRACTIVE_SIGNALING	0.39704241	1.06902323
ENSG00000162616	DNAJB4 subnetwork	0.39828401	1.069024613
MP:0005330	cardiomyopathy	0.99025203	1.069084512
ENSG00000206318	ENSG00000206318 subnetwork	0.39785262	1.069103687
ENSG00000198959	TGM2 subnetwork	0.39768284	1.069119795
ENSG00000005513	SOX8 subnetwork	0.99022579	1.06914583
GO:0043034	costamere	0.39607326	1.069169417
ENSG00000151224	MAT1A subnetwork	0.39675328	1.069174446
ENSG00000180138	CSNK1A1L subnetwork	0.39647001	1.069179337
ENSG00000148229	POLE3 subnetwork	0.39702438	1.069200512
GO:0043271	negative regulation of ion transport	0.9902141	1.069222131
ENSG00000166595	FAM96B subnetwork	0.39781999	1.069225854
GO:0010675	regulation of cellular carbohydrate metabolic process	0.39640404	1.069246977
MP:0005006	abnormal osteoblast physiology	0.39694477	1.069249771
REACTOME_CRMP5_IN_SEMA3	REACTOME_CRMP5_IN_SEMA3A_SIGNALING	0.99019376	1.069279724
REACTOME_INTERFERON_ALPHA	REACTOME_INTERFERON_ALPHABETA_SIGNALING	0.39689484	1.069299048
REACTOME_P75NTR_RECRUIT	REACTOME_P75NTR_RECRUITS_SIGNALING_COMPLEXES	0.3963379	1.069314642
ENSG00000136869	TLR4 subnetwork	0.39674535	1.069351886
GO:0003203	endocardial cushion morphogenesis	0.99018963	1.06935979
MP:0000784	forebrain hypoplasia	0.39627784	1.069364003
GO:0046486	glycerolipid metabolic process	0.39664355	1.069413919
GO:0030246	carbohydrate binding	0.99016421	1.069428636
ENSG00000214655	KIAA0913 subnetwork	0.39672279	1.069492767
MP:0001325	abnormal retina morphology	0.9901463	1.069501236
REACTOME_REGULATION_OF	REACTOME_REGULATION_OF_SIGNALING_BY_CBL	0.99013711	1.069573847
MP:0006089	abnormal vestibular sacculi morphology	0.99009091	1.069590293
ENSG00000100503	NIN subnetwork	0.39865434	1.0696191
MP:0000807	abnormal hippocampus morphology	0.99008312	1.069655431
GO:0003007	heart morphogenesis	0.99006983	1.06972807
MP:0008873	increased physiological sensitivity to xenobiotic	0.39884948	1.06973037
MP:0008518	retinal outer nuclear layer degeneration	0.99002818	1.069748277
ENSG00000168291	PDHB subnetwork	0.39877109	1.069761297
GO:0016504	peptidase activator activity	0.99001559	1.069820934
GO:0035107	appendage morphogenesis	0.99000316	1.069893601
GO:0035108	limb morphogenesis	0.99000316	1.069973773
GO:0007224	smoothened signaling pathway	0.98999567	1.070042716
MP:0002798	abnormal active avoidance behavior	0.98998738	1.070104174
MP:0005145	increased circulating VLDL cholesterol level	0.98997367	1.07016939
GO:0071391	cellular response to estrogen stimulus	0.39909799	1.070191257
GO:0007411	axon guidance	0.98996877	1.070234615
ENSG00000106628	POLD2 subnetwork	0.39920236	1.070242215
MP:0001402	hypoactivity	0.98995692	1.07029985
REACTOME_CLEAVAGE_OF_G	REACTOME_CLEAVAGE_OF_GROWING_TRANSCRIPT_IN_TH	0.98995655	1.070380088
REACTOME_RNA_POLYMERASE	REACTOME_RNA_POLYMERASE_II_TRANSCRIPTION_TERMI	0.98995655	1.070460339
ENSG00000101138	CSTF1 subnetwork	0.39937087	1.070502549
GO:0001077	RNA polymerase II core promoter proximal region sequen	0.39958256	1.070518653
REACTOME_POST:ELONGATIO	REACTOME_POST:ELONGATION_PROCESSING_OF_THE_TR	0.98995655	1.070540601
KEGG_MELANOMA	KEGG_MELANOMA	0.98992464	1.070572136
MP:0002818	abnormal dentin morphology	0.39953604	1.070604296
GO:0045932	negative regulation of muscle contraction	0.98990079	1.070607424

MP:0010519	atrioventricular block	0.98988788	1.070668967
GO:0042597	periplasmic space	0.98988204	1.070745519
GO:0047485	protein N-terminus binding	0.39952614	1.070753687
GO:0030288	outer membrane-bounded periplasmic space	0.98988204	1.070825833
MP:0004966	abnormal inner cell mass proliferation	0.98986281	1.070868652
GO:0005689	U12-type spliceosomal complex	0.39979283	1.070897016
ENSG00000182010	RTKN2 subnetwork	0.98984831	1.070930233
GO:0030111	regulation of Wnt receptor signaling pathway	0.98981845	1.070958061
GO:0002088	lens development in camera-type eye	0.98979496	1.0710009
GO:0050432	catecholamine secretion	0.98979359	1.071081264
GO:0061097	regulation of protein tyrosine kinase activity	0.3999391	1.071111515
KEGG_SPLICEOSOME	KEGG_SPLICEOSOME	0.40014011	1.071118182
MP:0005032	abnormal ectoplacental cone morphology	0.40007066	1.071131115
GO:0031960	response to corticosteroid stimulus	0.98978373	1.071157887
ENSG00000113327	GABRG2 subnetwork	0.98974988	1.071196998
MP:0004830	short incisors	0.98974536	1.071273642
GO:0042554	superoxide anion generation	0.40005983	1.071307748
MP:0000964	small dorsal root ganglion	0.9897233	1.071335285
ENSG00000183765	CHEK2 subnetwork	0.40032608	1.071337695
GO:0042063	gliogenesis	0.98971988	1.071415703
ENSG00000133226	SRRM1 subnetwork	0.40028642	1.071459735
MP:0008143	abnormal dendrite morphology	0.98971204	1.07149238
GO:0031902	late endosome membrane	0.98969542	1.071554054
ENSG00000125378	BMP4 subnetwork	0.98964917	1.071593213
MP:0002066	abnormal motor capabilities/coordination/movement	0.98961503	1.071632377
MP:0001545	abnormal hematopoietic system physiology	0.40078099	1.071645179
ENSG00000134365	CFHR4 subnetwork	0.40051556	1.071660912
GO:0001832	blastocyst growth	0.40084344	1.07167756
ENSG00000103994	ZFP106 subnetwork	0.40066362	1.071698456
REACTOME_P2Y_RECEPTORS	REACTOME_P2Y_RECEPTORS	0.98960933	1.071709094
GO:0050662	coenzyme binding	0.40060841	1.071720567
GO:0006898	receptor-mediated endocytosis	0.98959252	1.071770802
ENSG00000127481	UBR4 subnetwork	0.40076	1.071803487
MP:0003063	increased coping response	0.98958372	1.071843785
ENSG00000025770	NCAPH2 subnetwork	0.98956258	1.071890491
REACTOME_SYNTHESIS_SECRE	REACTOME_SYNTHESIS_SECRETION_AND_DEACYLATION_C	0.98954704	1.071929693
MP:0002797	increased thigmotaxis	0.98953923	1.071995192
ENSG00000077942	FBLN1 subnetwork	0.98953267	1.072075727
MP:0000528	delayed kidney development	0.98952965	1.072141247
GO:0005865	striated muscle thin filament	0.98948086	1.072165452
ENSG00000011485	PPP5C subnetwork	0.98946932	1.072234746
GO:0002027	regulation of heart rate	0.98944912	1.072289021
MP:0001510	abnormal coat appearance	0.40110073	1.072290797
MP:0001053	abnormal neuromuscular synapse morphology	0.98943532	1.072350819
MP:0000811	hippocampal neuron degeneration	0.98942859	1.072412627
GO:0060284	regulation of cell development	0.98941036	1.072463169
MP:0008840	abnormal spike wave discharge	0.98940681	1.072540029
ENSG00000073969	NSF subnetwork	0.98938761	1.072586829
GO:0031201	SNARE complex	0.98938598	1.072663709
GO:0051781	positive regulation of cell division	0.98937838	1.072744361
MP:0004091	abnormal Z lines	0.98931813	1.072746071
GO:0034706	sodium channel complex	0.98931658	1.072822981
GO:0045577	regulation of B cell differentiation	0.4013458	1.072831216

MP:0008042	abnormal NK T cell physiology	0.98921484	1.07287154
ENSG00000173674	EIF1AX subnetwork	0.98929582	1.072873581
ENSG00000204967	PCDHA4 subnetwork	0.98918907	1.072937194
MP:0004754	abnormal kidney collecting duct morphology	0.98917858	1.073010381
REACTOME_VOLTAGE_GATED_POTASSIUM_CHANNELS	REACTOME_VOLTAGE_GATED_POTASSIUM_CHANNELS	0.98913437	1.073053487
GO:0022412	cellular process involved in reproduction in multicellular or	0.98912226	1.073111646
ENSG00000078401	EDN1 subnetwork	0.98909225	1.073151004
MP:0005193	abnormal anterior eye segment morphology	0.98908636	1.07320918
MP:0001663	abnormal digestive system physiology	0.98907555	1.073271126
MP:0011024	abnormal branching involved in lung morphogenesis	0.98907048	1.073344371
GO:0031112	positive regulation of microtubule polymerization or depoly	0.98902341	1.073368706
GO:0030135	coated vesicle	0.40168964	1.07337627
MP:0001314	corneal opacity	0.98902078	1.073445732
GO:0009744	response to sucrose stimulus	0.98901864	1.073526534
MP:0002636	delayed vaginal opening	0.40168692	1.07357104
GO:0034285	response to disaccharide stimulus	0.98901864	1.073607347
GO:0060042	retina morphogenesis in camera-type eye	0.98901131	1.073680644
ENSG00000078369	GNB1 subnetwork	0.98900459	1.073753953
ENSG00000160145	KALRN subnetwork	0.98895429	1.073759506
ENSG00000127554	GFER subnetwork	0.98893249	1.073829066
GO:0046326	positive regulation of glucose import	0.98892917	1.073906168
ENSG00000143382	ADAMTSL4 subnetwork	0.98892069	1.073968218
GO:0016500	protein-hormone receptor activity	0.98892065	1.074049107
GO:2000179	positive regulation of neural precursor cell proliferation	0.98880019	1.074056497
ENSG00000197279	ZNF165 subnetwork	0.98874246	1.074062076
GO:0055002	striated muscle cell development	0.98869148	1.074094025
GO:0044306	neuron projection terminus	0.98889819	1.074114944
MP:0003862	decreased aggression towards males	0.98867872	1.074159885
GO:0050750	low-density lipoprotein particle receptor binding	0.98867758	1.074237058
GO:0021602	cranial nerve morphogenesis	0.98867405	1.074306707
GO:0010833	telomere maintenance via telomere lengthening	0.40209358	1.074342463
GO:0030201	heparan sulfate proteoglycan metabolic process	0.98867005	1.074380134
MP:0001524	impaired limb coordination	0.98864696	1.074438499
ENSG00000186111	PIP5K1C subnetwork	0.40222184	1.074446863
GO:0045296	cadherin binding	0.98863958	1.074511947
MP:0003828	pulmonary edema	0.98863346	1.074589175
ENSG00000125740	FOSB subnetwork	0.40239505	1.074623753
KEGG_DILATED_CARDIOMYOPATHY	KEGG_DILATED_CARDIOMYOPATHY	0.98862086	1.074643799
GO:0048665	neuron fate specification	0.98861112	1.07471728
GO:0048645	organ formation	0.98856586	1.074737993
GO:0030195	negative regulation of blood coagulation	0.98853878	1.07477756
GO:0002360	T cell lineage commitment	0.40256146	1.074845903
MP:0005170	cleft lip	0.40261411	1.074850462
GO:0009142	nucleoside triphosphate biosynthetic process	0.9885378	1.074858608
MP:0004568	fusion of glossopharyngeal and vagus nerve	0.98851803	1.074894419
GO:0030858	positive regulation of epithelial cell differentiation	0.98848872	1.074952862
ENSG00000175826	CTDNEP1 subnetwork	0.40269941	1.074981877
GO:0000272	polysaccharide catabolic process	0.98847031	1.075022628
MP:0005324	ascites	0.98846535	1.075103719
ENSG000000001497	LAS1L subnetwork	0.40297782	1.07512226
ENSG00000163440	PDCL2 subnetwork	0.40280556	1.075131364
MP:0005630	increased lung weight	0.98843653	1.075154647
MP:0001195	flaky skin	0.4028907	1.075172101

ENSG00000167414	GNG8 subnetwork	0.98843232	1.07523576
MP:0002753	dilated heart left ventricle	0.98840407	1.075290478
ENSG00000162188	GNG3 subnetwork	0.9883717	1.075337659
ENSG00000059769	DNAJC25 subnetwork	0.98835847	1.07539994
ENSG00000143153	ATP1B1 subnetwork	0.98833867	1.075454683
ENSG00000133275	CSNK1G2 subnetwork	0.9882747	1.075456604
GO:0033267	axon part	0.98825907	1.075522681
GO:0019898	extrinsic to membrane	0.98822157	1.075558575
GO:0031116	positive regulation of microtubule polymerization	0.98820519	1.075632219
MP:0008908	increased total fat pad weight	0.98816386	1.075671901
GO:0051705	behavioral interaction between organisms	0.98815002	1.075749339
GO:0008589	regulation of smoothened signaling pathway	0.98814205	1.075826789
MP:0010123	increased bone mineral content	0.98812385	1.075881598
MP:0000230	abnormal systemic arterial blood pressure	0.98811253	1.075932639
GO:0055008	cardiac muscle tissue morphogenesis	0.98809022	1.075991239
REACTOME_L1CAM_INTERACT	REACTOME_L1CAM_INTERACTIONS	0.98808321	1.076061178
ENSG00000167461	RAB8A subnetwork	0.4037183	1.076140065
ENSG00000107187	LHX3 subnetwork	0.98808316	1.076142458
GO:0035510	DNA dealkylation	0.40359133	1.076185735
GO:0006754	ATP biosynthetic process	0.98807506	1.076201088
GO:0010828	positive regulation of glucose transport	0.98802908	1.076229508
MP:0005159	azoospermia	0.40367309	1.076244344
MP:0002804	abnormal motor learning	0.98802669	1.076310819
MP:0000428	abnormal craniofacial morphology	0.40357656	1.076344378
GO:0031252	cell leading edge	0.40348014	1.076367258
GO:0021537	telencephalon development	0.98801262	1.076369475
ENSG00000179036	ENSG00000179036 subnetwork	0.98799727	1.076431918
GO:0006073	cellular glucan metabolic process	0.98799117	1.076509484
GO:0044042	glucan metabolic process	0.98799117	1.07659084
MP:0009289	decreased epididymal fat pad weight	0.40472295	1.076665463
ENSG00000143344	RGL1 subnetwork	0.98798774	1.07666843
ENSG00000206353	SKIV2L subnetwork	0.40454621	1.076688945
ENSG00000138594	TMOD3 subnetwork	0.40460436	1.076693155
ENSG00000143256	PFDN2 subnetwork	0.40403542	1.076700434
GO:0090263	positive regulation of canonical Wnt receptor signaling path	0.98794225	1.07670068
ENSG00000171132	PRKCE subnetwork	0.98791927	1.076759392
ENSG00000144713	RPL32 subnetwork	0.4046806	1.076769592
REACTOME_THE_NLRP3_INFLA	REACTOME_THE_NLRP3_INFLAMMASOME	0.98787819	1.076795434
GO:0055029	nuclear DNA-directed RNA polymerase complex	0.40451754	1.076820235
ENSG00000114209	PDCD10 subnetwork	0.40499682	1.076822447
GO:0006904	vesicle docking involved in exocytosis	0.98784129	1.076839041
REACTOME_RECYCLING_OF_BI	REACTOME_RECYCLING_OF_BILE_ACIDS_AND_SALTS	0.40402352	1.076840963
GO:0034440	lipid oxidation	0.40429181	1.076893871
GO:0003205	cardiac chamber development	0.98781123	1.076893997
MP:0000759	abnormal skeletal muscle morphology	0.98778572	1.076941399
ENSG00000213024	NUP62 subnetwork	0.40436575	1.076979393
GO:0033598	mammary gland epithelial cell proliferation	0.40498094	1.07700776
GO:0000428	DNA-directed RNA polymerase complex	0.40451754	1.077014817
ENSG00000106089	STX1A subnetwork	0.98777656	1.077019056
ENSG00000060558	GNA15 subnetwork	0.98773959	1.07705135
GO:0043256	laminin complex	0.40427941	1.077052441
GO:0031047	gene silencing by RNA	0.4044574	1.077091993
GO:0016775	phosphotransferase activity, nitrogenous group as acceptor	0.98772182	1.077113901

REACTOME_PURINE_SALVAGE	REACTOME_PURINE_SALVAGE	0.98766836	1.077146207
ENSG00000118520	ARG1 subnetwork	0.40497328	1.07717509
ENSG00000111880	RNGTT subnetwork	0.40425875	1.077202026
GO:0050684	regulation of mRNA processing	0.98765397	1.077204992
MP:0003918	decreased kidney weight	0.98763438	1.077256222
GO:0008277	regulation of G-protein coupled receptor protein signaling	0.98762107	1.077330156
MP:0000755	hindlimb paralysis	0.98761927	1.077411667
ENSG00000173702	MUC13 subnetwork	0.98761752	1.077489407
GO:0008227	G-protein coupled amine receptor activity	0.98745363	1.077489784
ENSG00000172057	ORMDL3 subnetwork	0.98760835	1.077555808
MP:0005503	abnormal tendon morphology	0.98745137	1.077571331
REACTOME_INTEGRATION_OF	REACTOME_INTEGRATION_OF_ENERGY_METABOLISM	0.98745021	1.077652891
GO:0061005	cell differentiation involved in kidney development	0.40562219	1.07767358
ENSG00000117592	PRDX6 subnetwork	0.98741906	1.077689047
ENSG00000109111	SUPT6H subnetwork	0.40619276	1.077714749
ENSG00000157344	ENSG00000157344 subnetwork	0.98734371	1.077768945
ENSG00000108100	CCNY subnetwork	0.98741329	1.077770628
GO:0016125	sterol metabolic process	0.4055186	1.077791809
GO:0055003	cardiac myofibril assembly	0.98730268	1.077808904
ENSG00000178177	LCORL subnetwork	0.40561403	1.077849928
GO:0018200	peptidyl-glutamic acid modification	0.40617861	1.077863833
GO:0022411	cellular component disassembly	0.40592445	1.077865898
GO:0051489	regulation of filopodium assembly	0.40609911	1.077868852
MP:0005192	increased motor neuron number	0.98728546	1.077871583
GO:0022839	ion gated channel activity	0.98724674	1.077919128
MP:0003845	abnormal decidualization	0.40579404	1.077921024
ENSG00000061987	MON2 subnetwork	0.40587516	1.07796106
GO:0010524	positive regulation of calcium ion transport into cytosol	0.40607473	1.077963964
ENSG00000111481	COPZ1 subnetwork	0.98723169	1.077993184
ENSG00000141985	SH3GL1 subnetwork	0.98722356	1.078071039
ENSG00000164331	ANKRA2 subnetwork	0.40605837	1.078113174
GO:0044246	regulation of multicellular organismal metabolic process	0.98722257	1.078152693
GO:0044259	multicellular organismal macromolecule metabolic process	0.98721966	1.078234358
KEGG_GLYCOPHINGOLIPID_BI	KEGG_GLYCOPHINGOLIPID_BIOSYNTHESIS_GANGLIO_SER	0.40645507	1.078267915
GO:0051149	positive regulation of muscle cell differentiation	0.98721822	1.078316037
GO:0050679	positive regulation of epithelial cell proliferation	0.98720522	1.078382576
GO:0016460	myosin II complex	0.98713993	1.07842855
GO:0010765	positive regulation of sodium ion transport	0.98720348	1.078460489
ENSG00000066427	ATXN3 subnetwork	0.9871255	1.078506479
GO:0051588	regulation of neurotransmitter transport	0.98704435	1.078567639
GO:0050678	regulation of epithelial cell proliferation	0.98711249	1.07858063
MP:0004395	increased cochlear inner hair cell number	0.98702298	1.078645596
GO:0090184	positive regulation of kidney development	0.98701303	1.078712196
GO:0003254	regulation of membrane depolarization	0.98700804	1.078793966
REACTOME_G_ALPHA_S_SIGN	REACTOME_G_ALPHA_S_SIGNALLING_EVENTS	0.98692355	1.078862775
MP:0008456	abnormal retinal rod cell outer segment morphology	0.98700287	1.078868168
ENSG00000100714	MTHFD1 subnetwork	0.40674374	1.078883888
GO:0061333	renal tubule morphogenesis	0.98691675	1.078929411
MP:0000550	abnormal forelimb morphology	0.98687183	1.078965726
GO:0009262	deoxyribonucleotide metabolic process	0.98683396	1.078994464
GO:0031163	metallo-sulfur cluster assembly	0.40724828	1.078996583
MP:0009453	enhanced contextual conditioning behavior	0.98678821	1.079038374
GO:0000159	protein phosphatase type 2A complex	0.40778929	1.079076868

REACTOME_INTRINSIC_PATHWAY	REACTOME_INTRINSIC_PATHWAY	0.98678244	1.079112628
ENSG00000112685	EXOC2 subnetwork	0.40840435	1.079128564
GO:0017025	TBP-class protein binding	0.4083356	1.079133788
ENSG00000183814	LIN9 subnetwork	0.40690291	1.079139669
GO:0006302	double-strand break repair	0.4082999	1.079174888
GO:0048243	norepinephrine secretion	0.98677225	1.079179308
GO:0016226	iron-sulfur cluster assembly	0.40724828	1.079190647
MP:0002843	decreased systemic arterial blood pressure	0.40710559	1.079201151
ENSG00000175595	ERCC4 subnetwork	0.40776954	1.079216813
GO:0072078	nephron tubule morphogenesis	0.98677086	1.079257377
ENSG00000143368	SF3B4 subnetwork	0.40748388	1.079264785
GO:0048037	cofactor binding	0.40804008	1.079267636
MP:0009640	abnormal renal tubule epithelium morphology	0.40853181	1.07928469
ENSG00000172534	HCFC1 subnetwork	0.40772324	1.079311894
ENSG00000108819	ENSG00000108819 subnetwork	0.98675664	1.079320285
ENSG00000130255	RPL36 subnetwork	0.40723833	1.079339809
ENSG00000213699	C2orf18 subnetwork	0.40707232	1.079341371
ENSG00000168530	MYL1 subnetwork	0.40829554	1.079359526
GO:0009712	catechol-containing compound metabolic process	0.98675557	1.07940217
KEGG_TRYPTOPHAN_METABOLISM	KEGG_TRYPTOPHAN_METABOLISM	0.40746959	1.07941388
MP:0002020	increased tumor incidence	0.40824008	1.079427597
MP:0004543	abnormal sperm physiology	0.40863667	1.079431798
ENSG00000198300	ZIM2 subnetwork	0.40803798	1.0794614
GO:0006584	catecholamine metabolic process	0.98675557	1.079484067
GO:0008239	dipeptidyl-peptidase activity	0.40771606	1.079496855
KEGG_BUTANOATE_METABOLISM	KEGG_BUTANOATE_METABOLISM	0.408013	1.079556473
GO:0034311	diol metabolic process	0.98675557	1.079565976
REACTOME_GENERIC_TRANSCRIPTION_PATHWAY	REACTOME_GENERIC_TRANSCRIPTION_PATHWAY	0.40823493	1.079603374
ENSG00000186852	ENSG00000186852 subnetwork	0.40767869	1.079609993
ENSG00000124688	MAD2L1BP subnetwork	0.98674825	1.07964031
ENSG00000125166	GOT2 subnetwork	0.98671473	1.079661531
GO:0009260	ribonucleotide biosynthetic process	0.98671399	1.079743473
MP:0009305	decreased retroperitoneal fat pad weight	0.98671386	1.079825427
ENSG00000172915	NBEA subnetwork	0.40883257	1.079829749
ENSG00000154473	BUB3 subnetwork	0.98670065	1.079892212
GO:0001963	synaptic transmission, dopaminergic	0.98666488	1.079936233
GO:0055038	recycling endosome membrane	0.98665935	1.080014425
GO:0060191	regulation of lipase activity	0.98661273	1.080058462
GO:0000086	G2/M transition of mitotic cell cycle	0.98660751	1.080132878
GO:0015949	nucleobase-containing small molecule interconversion	0.98659057	1.080207305
ENSG00000111450	STX2 subnetwork	0.98657948	1.080258961
GO:0032607	interferon-alpha production	0.98656499	1.080322017
ENSG00000095261	PSMD5 subnetwork	0.40948403	1.080374083
GO:0032647	regulation of interferon-alpha production	0.98656499	1.080404071
MP:0010831	partial lethality	0.98655275	1.080467148
GO:0048592	eye morphogenesis	0.98650862	1.080480857
GO:0021549	cerebellum development	0.4090717	1.080487368
ENSG00000164346	NSA2 subnetwork	0.40947866	1.080549588
GO:0016079	synaptic vesicle exocytosis	0.98650137	1.080562942
ENSG00000176273	SLC35G1 subnetwork	0.4092025	1.080580437
GO:0021895	cerebral cortex neuron differentiation	0.98645372	1.080591855
ENSG00000125484	GTF3C4 subnetwork	0.40936977	1.080623209
GO:0045920	negative regulation of exocytosis	0.98641531	1.080624573

ENSG00000183395	PMCH subnetwork	0.9864136	1.080695289
ENSG00000024422	EHD2 subnetwork	0.40946954	1.080716204
ENSG00000132824	SERINC3 subnetwork	0.40990878	1.080727956
GO:0045923	positive regulation of fatty acid metabolic process	0.98641324	1.080773615
ENSG00000142684	ZNF593 subnetwork	0.40935493	1.080789898
GO:0006732	coenzyme metabolic process	0.40978428	1.080819467
ENSG00000156052	GNAQ subnetwork	0.98639404	1.080821553
GO:0035239	tube morphogenesis	0.40987779	1.080867621
GO:0010656	negative regulation of muscle cell apoptotic process	0.98637945	1.0808885
MP:0001384	abnormal pup retrieval	0.98637301	1.080959258
MP:0003542	abnormal vascular endothelial cell development	0.40978102	1.081012885
GO:0050974	detection of mechanical stimulus involved in sensory perce	0.98636523	1.081033827
ENSG00000177301	KCNA2 subnetwork	0.98628476	1.081043789
ENSG00000095380	NANS subnetwork	0.41028463	1.081108132
GO:0060193	positive regulation of lipase activity	0.98628119	1.081125979
GO:0030120	vesicle coat	0.41016615	1.081128196
ENSG00000153395	LPCAT1 subnetwork	0.41038308	1.081129378
ENSG00000162409	PRKAA2 subnetwork	0.41060213	1.081130559
GO:0006506	GPI anchor biosynthetic process	0.41054922	1.081189711
ENSG00000159200	RCAN1 subnetwork	0.98626859	1.081192974
MP:0000153	rib bifurcation	0.41078319	1.081208713
ENSG00000104067	TJP1 subnetwork	0.41025097	1.081212013
GO:0050920	regulation of chemotaxis	0.98623011	1.081237168
GO:0001840	neural plate development	0.41049923	1.081284617
MP:0004101	abnormal brain interneuron morphology	0.98621791	1.08130038
ENSG00000015171	ZMYND11 subnetwork	0.41016526	1.081312589
ENSG00000010017	RANBP9 subnetwork	0.41075017	1.081330357
GO:0009593	detection of chemical stimulus	0.98619344	1.081363602
MP:0011092	complete embryonic lethality	0.4109583	1.081381649
GO:0009408	response to heat	0.98618937	1.081426833
MP:0009936	abnormal dendritic spine morphology	0.98618842	1.08150909
GO:0032838	cell projection cytoplasm	0.98608256	1.081589958
ENSG00000068078	FGFR3 subnetwork	0.9861758	1.081591359
GO:0009952	anterior/posterior pattern specification	0.98607358	1.081664638
GO:0048662	negative regulation of smooth muscle cell proliferation	0.41120499	1.081664882
REACTOME_GAP_JUNCTION_D	REACTOME_GAP_JUNCTION_DEGRADATION	0.98600152	1.08167846
GO:0045723	positive regulation of fatty acid biosynthetic process	0.98599388	1.081756962
GO:0005248	voltage-gated sodium channel activity	0.98588391	1.081792237
ENSG00000119048	UBE2B subnetwork	0.41117374	1.081804391
ENSG00000213199	ACCN3 subnetwork	0.98599319	1.081839282
GO:0008509	anion transmembrane transporter activity	0.98586877	1.081855545
ENSG00000181827	RFX7 subnetwork	0.98585035	1.081907444
GO:0051004	regulation of lipoprotein lipase activity	0.98583519	1.08197077
MP:0003484	abnormal channel response	0.98581786	1.082034105
MP:0002102	abnormal ear morphology	0.9858062	1.08209745
GO:0009132	nucleoside diphosphate metabolic process	0.98578788	1.082164611
ENSG00000197448	GSTK1 subnetwork	0.4126667	1.082171439
KEGG_DRUG_METABOLISM_O	KEGG_DRUG_METABOLISM_OTHER_ENZYMES	0.98575063	1.082197518
GO:0050755	chemokine metabolic process	0.41263358	1.082257204
ENSG00000152601	MBNL1 subnetwork	0.98575054	1.082279927
ENSG00000109107	ALDOC subnetwork	0.98574352	1.082358541
GO:0000209	protein polyubiquitination	0.41260799	1.082387476
GO:0051384	response to glucocorticoid stimulus	0.98573144	1.082425743

ENSG00000104897	SF3A2 subnetwork	0.4128575	1.082441323
ENSG00000112818	MEP1A subnetwork	0.9856826	1.082458679
ENSG00000181061	HIGD1A subnetwork	0.98563739	1.082514473
ENSG00000183751	TBL3 subnetwork	0.4124288	1.08252937
REACTOME_ACTIVATED_AMPK	REACTOME_ACTIVATED_AMPK_STIMULATES_FATTY:ACID_	0.41260582	1.082562278
GO:0009310	amine catabolic process	0.41250357	1.082568073
GO:0021846	cell proliferation in forebrain	0.98563146	1.082581702
REACTOME_RNA_POLYMERAS	REACTOME_RNA_POLYMERASE_II_PRE:TRANSCRIPTION_E	0.41163658	1.082586976
GO:0060317	cardiac epithelial to mesenchymal transition	0.98561455	1.082633704
GO:0030520	intracellular estrogen receptor signaling pathway	0.41215395	1.082638518
GO:0050433	regulation of catecholamine secretion	0.98556617	1.082655238
ENSG00000135333	EPHA7 subnetwork	0.41172292	1.082670353
GO:0010977	negative regulation of neuron projection development	0.98552236	1.082680585
ENSG00000124214	STAU1 subnetwork	0.41242323	1.082704291
GO:0051258	protein polymerization	0.41229045	1.082742654
GO:0043473	pigmentation	0.98545835	1.082754153
ENSG00000092621	PHGDH subnetwork	0.41182933	1.082756776
MP:0009746	enhanced behavioral response to xenobiotic	0.98552231	1.082763088
MP:0000270	abnormal heart tube morphology	0.41191722	1.082804421
ENSG00000215612	HMX1 subnetwork	0.41240578	1.082808048
REACTOME_CDT1_ASSOCIAT	REACTOME_CDT1_ASSOCIATION_WITH_THE_CDC6ORCORI	0.41214351	1.082813614
REACTOME_GAP_JUNCTION_A	REACTOME_GAP_JUNCTION_ASSEMBLY	0.98544563	1.082829053
REACTOME_RNA_POLYMERAS	REACTOME_RNA_POLYMERASE_I_PROMOTER_ESCAPE	0.41199437	1.08285205
GO:0046873	metal ion transmembrane transporter activity	0.98540163	1.082862043
GO:0005740	mitochondrial envelope	0.41228216	1.082899893
ENSG00000140553	UNC45A subnetwork	0.41208897	1.082926395
MP:0011102	partial embryonic lethality	0.98539066	1.082929339
ENSG00000002834	LASP1 subnetwork	0.98519487	1.082936871
GO:0050810	regulation of steroid biosynthetic process	0.41182081	1.082940967
ENSG00000101421	CHMP4B subnetwork	0.98536304	1.082977588
GO:0014031	mesenchymal cell development	0.98517131	1.082985132
GO:0072528	pyrimidine-containing compound biosynthetic process	0.98531989	1.083018221
GO:0043584	nose development	0.98512352	1.083025774
GO:0043679	axon terminus	0.9851115	1.083096927
MP:0010392	prolonged QRS complex duration	0.98508997	1.083152837
ENSG00000178999	AURKB subnetwork	0.98504615	1.083166806
GO:0006892	post-Golgi vesicle-mediated transport	0.98497995	1.083199847
GO:0031146	SCF-dependent proteasomal ubiquitin-dependent protein c	0.98496378	1.083274849
ENSG00000143702	CEP170 subnetwork	0.98490274	1.083285017
GO:0009206	purine ribonucleoside triphosphate biosynthetic process	0.98490159	1.083367666
GO:2000736	regulation of stem cell differentiation	0.98489914	1.083446513
REACTOME_INHIBITION_OF_I	REACTOME_INHIBITION_OF_INSULIN_SECRETION_BY_ADR	0.98488835	1.08350248
ENSG00000119318	RAD23B subnetwork	0.41353293	1.0835614
GO:0035412	regulation of catenin import into nucleus	0.98487184	1.083562271
GO:0051414	response to cortisol stimulus	0.98484964	1.08359536
ENSG00000165632	TAF3 subnetwork	0.41348075	1.08362069
GO:0050829	defense response to Gram-negative bacterium	0.98480804	1.083639902
GO:0060349	bone morphogenesis	0.98475328	1.083665369
MP:0002069	abnormal eating/drinking behavior	0.98471611	1.083687023
GO:0001570	vasculogenesis	0.98463823	1.083697229
MP:0010067	increased red blood cell distribution width	0.41368408	1.083715352
ENSG00000134308	YWHAQ subnetwork	0.41344391	1.083742222
ENSG00000155111	CDK19 subnetwork	0.98460091	1.08374561

ENSG00000138433	CIR1 subnetwork	0.41382004	1.083789305
GO:0048640	negative regulation of developmental growth	0.9845942	1.08382454
GO:0050664	oxidoreductase activity, acting on NADH or NADPH, oxygen	0.98459158	1.083899664
GO:0043176	amine binding	0.98459077	1.083982436
MP:0006280	abnormal digit development	0.98454863	1.08401558
GO:0034483	heparan sulfate sulfotransferase activity	0.98453351	1.084086917
ENSG00000070785	EIF2B3 subnetwork	0.98449344	1.084104797
GO:0050773	regulation of dendrite development	0.98448104	1.084160874
ENSG00000064692	SNCAIP subnetwork	0.98446545	1.084228419
GO:0009201	ribonucleoside triphosphate biosynthetic process	0.98446158	1.084303614
ENSG00000163531	NFASC subnetwork	0.98445752	1.084386461
GO:0048469	cell maturation	0.98428814	1.084424914
ENSG00000164818	HEATR2 subnetwork	0.41416937	1.084431616
MP:0001431	abnormal eating behavior	0.98442711	1.084434935
GO:0019228	regulation of action potential in neuron	0.98427593	1.084481046
GO:0008306	associative learning	0.98441532	1.084491059
MP:0004981	decreased neuronal precursor cell number	0.98427385	1.084563938
ENSG00000156795	WDYHV1 subnetwork	0.98427126	1.084643021
GO:0002080	acrosomal membrane	0.98425245	1.084706827
ENSG00000130733	YIPF2 subnetwork	0.41434513	1.084780678
GO:0004012	phospholipid-translocating ATPase activity	0.98424922	1.084789755
GO:0032781	positive regulation of ATPase activity	0.98422234	1.084845936
ENSG00000075618	FSCN1 subnetwork	0.98421942	1.084925065
GO:0042398	cellular modified amino acid biosynthetic process	0.98417964	1.084962147
GO:0051445	regulation of meiotic cell cycle	0.4145094	1.084996449
GO:0060216	definitive hemopoiesis	0.41479533	1.085007097
MP:0005121	decreased circulating prolactin level	0.98415837	1.085026002
MP:0009402	decreased skeletal muscle fiber diameter	0.41469303	1.085063898
ENSG00000031544	ENSG00000031544 subnetwork	0.41475464	1.085066548
MP:0004098	abnormal cerebellar granule cell morphology	0.98413541	1.085086042
MP:0003396	abnormal embryonic hematopoiesis	0.41464114	1.08512338
GO:0003001	generation of a signal involved in cell-cell signaling	0.98413471	1.085169038
GO:0023061	signal release	0.98413471	1.085252046
ENSG00000004939	SLC4A1 subnetwork	0.9841304	1.085323592
ENSG00000095066	HOOK2 subnetwork	0.41499051	1.085364556
GO:0048488	synaptic vesicle endocytosis	0.98409597	1.085376023
MP:0002191	abnormal artery morphology	0.98408164	1.085451415
MP:0002731	megacolon	0.98407855	1.085534471
GO:0000090	mitotic anaphase	0.98405459	1.085575451
GO:0009145	purine nucleoside triphosphate biosynthetic process	0.98403552	1.085635571
ENSG00000144191	CNGA3 subnetwork	0.98365908	1.08568147
GO:0015837	amine transport	0.983817	1.085683663
ENSG00000072415	MPP5 subnetwork	0.9835921	1.085688031
GO:0035235	ionotropic glutamate receptor signaling pathway	0.98403118	1.085707179
ENSG00000122545	SEPT7 subnetwork	0.98378361	1.085736161
GO:0048255	mRNA stabilization	0.98398624	1.085744355
ENSG00000164707	SLC13A4 subnetwork	0.98357642	1.085744371
GO:0030662	coated vesicle membrane	0.9838903	1.085765138
GO:0043489	RNA stabilization	0.98398624	1.085827465
ENSG00000081800	SLC13A1 subnetwork	0.98357642	1.085827525
REACTOME_CDO_IN_MYOGEN	REACTOME_CDO_IN_MYOGENESIS	0.98351334	1.085857077
ENSG00000108592	FTSJ3 subnetwork	0.41531943	1.085934729
REACTOME_MYOGENESIS	REACTOME_MYOGENESIS	0.98351334	1.085940253

GO:0051183	vitamin transporter activity	0.98342382	1.085995557
ENSG00000033627	ATP6V0A1 subnetwork	0.98350704	1.08601195
GO:0044272	sulfur compound biosynthetic process	0.9834046	1.086051946
MP:0001924	infertility	0.98339043	1.086123669
GO:0007423	sensory organ development	0.98336345	1.086183908
MP:0000538	abnormal urinary bladder morphology	0.98335637	1.086263315
GO:0016538	cyclin-dependent protein kinase regulator activity	0.98334492	1.086342735
ENSG00000151276	MAGI1 subnetwork	0.41595037	1.08638377
GO:0042692	muscle cell differentiation	0.98333254	1.086422166
ENSG00000011600	TYROBP subnetwork	0.41561252	1.086460365
ENSG00000186469	GNG2 subnetwork	0.98328465	1.086486279
ENSG00000143498	TAF1A subnetwork	0.41589436	1.086487684
GO:0010800	positive regulation of peptidyl-threonine phosphorylation	0.98328169	1.086565734
GO:0001726	ruffle	0.41586282	1.086591634
GO:0048715	negative regulation of oligodendrocyte differentiation	0.98327755	1.086649034
ENSG00000183454	GRIN2A subnetwork	0.98313449	1.086673823
GO:0005977	glycogen metabolic process	0.98324769	1.086701679
GO:0043094	cellular metabolic compound salvage	0.98310821	1.086749482
ENSG00000111540	RAB5B subnetwork	0.41586003	1.086784258
MP:0000588	thick tail	0.98310598	1.086828988
ENSG00000062822	POLD1 subnetwork	0.41581557	1.086835106
GO:0032956	regulation of actin cytoskeleton organization	0.41624395	1.08683791
GO:0032465	regulation of cytokinesis	0.98309519	1.086904671
ENSG00000080986	NDC80 subnetwork	0.98306086	1.086957355
ENSG00000173660	UQCRH subnetwork	0.98305733	1.08704073
GO:0031645	negative regulation of neurological system process	0.9830238	1.087081927
GO:0045777	positive regulation of blood pressure	0.98297589	1.087111623
ENSG00000119938	PPP1R3C subnetwork	0.9829053	1.087125978
GO:0003014	renal system process	0.98289042	1.087205555
ENSG00000145423	SFRP2 subnetwork	0.98288027	1.087281308
GO:0030496	midbody	0.98278713	1.087352264
MP:0000034	abnormal vestibule morphology	0.9828787	1.087364746
MP:0002001	blindness	0.9827676	1.08740502
MP:0001208	blistering	0.98276314	1.087473135
GO:0012510	trans-Golgi network transport vesicle membrane	0.41679267	1.087475659
GO:0006298	mismatch repair	0.41663817	1.087497786
MP:0000781	decreased corpus callosum size	0.98263679	1.087547025
REACTOME_TRAFFICKING_OF_REACTOME_TRAFFICKING_OF_GLUR2:CONTAINING_AMPA		0.98276111	1.087552775
MP:0001129	impaired ovarian folliculogenesis	0.41661224	1.087566419
MP:0004310	small otic vesicle	0.98262475	1.087630528
ENSG00000069966	GNB5 subnetwork	0.98275698	1.087632427
ENSG00000141543	EIF4A3 subnetwork	0.41679207	1.087668201
ENSG00000147246	HTR2C subnetwork	0.98261972	1.087710205
GO:0010712	regulation of collagen metabolic process	0.98260954	1.087786054
GO:0061041	regulation of wound healing	0.98233865	1.087805346
GO:0045995	regulation of embryonic development	0.98259632	1.087835036
GO:0043647	inositol phosphate metabolic process	0.98233843	1.087888914
GO:0035567	non-canonical Wnt receptor signaling pathway	0.9825774	1.087895545
ENSG00000169925	BRD3 subnetwork	0.41695789	1.087946903
GO:0005922	connexon complex	0.98254073	1.087952224
GO:0004864	protein phosphatase inhibitor activity	0.98232538	1.087960971
ENSG00000182255	KCNA4 subnetwork	0.417048	1.087966732
GO:0016073	snRNA metabolic process	0.41713985	1.0879954

GO:0045745	positive regulation of G-protein coupled receptor protein si	0.98224969	1.088035961
ENSG00000110318	KIAA1377 subnetwork	0.98218536	1.088038884
GO:0061053	somite development	0.98232359	1.088040722
GO:0033116	endoplasmic reticulum-Golgi intermediate compartment m	0.98216036	1.088080234
ENSG00000134287	ARF3 subnetwork	0.98215294	1.088163861
GO:0048066	developmental pigmentation	0.98213336	1.088228286
MP:0009400	decreased skeletal muscle fiber size	0.98211543	1.088273503
ENSG00000100823	APEX1 subnetwork	0.41924151	1.088318662
ENSG00000159131	GART subnetwork	0.41898261	1.088319239
MP:0005112	abnormal spinal cord ventral horn morphology	0.9821019	1.088349477
GO:0009063	cellular amino acid catabolic process	0.41986992	1.088427717
ENSG00000148468	FAM171A1 subnetwork	0.98210139	1.088433151
ENSG00000134490	TMEM241 subnetwork	0.41915252	1.08843783
GO:0030414	peptidase inhibitor activity	0.41897084	1.088449339
GO:0050996	positive regulation of lipid catabolic process	0.98205512	1.088459173
MP:0003026	decreased vasoconstriction	0.41981941	1.088469657
ENSG00000102468	HTR2A subnetwork	0.41848694	1.088488003
GO:0005798	Golgi-associated vesicle	0.41941143	1.088505545
ENSG00000185024	BRF1 subnetwork	0.41923672	1.088510301
MP:0001544	abnormal cardiovascular system physiology	0.41773915	1.088511842
GO:0005903	brush border	0.41888698	1.0885178
GO:0030669	clathrin-coated endocytic vesicle membrane	0.98204406	1.088542868
MP:0002404	increased intestinal adenoma incidence	0.41767725	1.088545165
GO:0019430	removal of superoxide radicals	0.41763463	1.088578501
GO:0007405	neuroblast proliferation	0.98200602	1.088580437
REACTOME_ACTIVATION_OF_I	REACTOME_ACTIVATION_OF_BH3:ONLY_PROTEINS	0.41914877	1.088629558
GO:0007179	transforming growth factor beta receptor signaling pathwa	0.41785804	1.088637568
GO:0050482	arachidonic acid secretion	0.98198614	1.088641083
MP:0001914	hemorrhage	0.41981486	1.088652357
GO:2000758	positive regulation of peptidyl-lysine acetylation	0.4184795	1.088653609
KEGG_ENDOCYTOSIS	KEGG_ENDOCYTOSIS	0.41885867	1.088674423
GO:0043407	negative regulation of MAP kinase activity	0.41961683	1.088674762
GO:0014821	phasic smooth muscle contraction	0.9819582	1.08868251
ENSG00000160967	ENSG00000160967 subnetwork	0.41975842	1.088755939
GO:0043526	neuroprotection	0.98194991	1.088758557
GO:0071450	cellular response to oxygen radical	0.41763463	1.088770999
GO:0032411	positive regulation of transporter activity	0.42002739	1.088772639
MP:0000571	interdigital webbing	0.98175798	1.08880597
ENSG00000140463	BBS4 subnetwork	0.42010157	1.088818565
GO:0034623	cellular macromolecular complex disassembly	0.41847609	1.088828097
ENSG00000127526	SLC35E1 subnetwork	0.41825941	1.088831008
GO:0045648	positive regulation of erythrocyte differentiation	0.4188526	1.088839915
MP:0001304	cataracts	0.98194827	1.088842308
MP:0000467	abnormal esophagus morphology	0.98187703	1.088845296
ENSG00000152582	SPEF2 subnetwork	0.98172636	1.088866662
ENSG00000128408	RIBC2 subnetwork	0.41842127	1.08890556
MP:0003122	maternal imprinting	0.41753848	1.088908544
ENSG00000158792	SPATA2L subnetwork	0.41882506	1.088934932
ENSG00000127588	GNG13 subnetwork	0.98172218	1.088935057
GO:0071451	cellular response to superoxide	0.41763463	1.088963566
MP:0005459	decreased percent body fat	0.41818013	1.088994877
GO:0045182	translation regulator activity	0.41824107	1.088996821
ENSG00000120860	CCDC53 subnetwork	0.98170315	1.089007311

ENSG00000087008	ACOX3 subnetwork	0.41840309	1.089018362
ENSG00000196083	IL1RAP subnetwork	0.41812632	1.08905477
REACTOME_APOPTOTIC_CLEAVAGE_OF_CELL_ADHESION_MOLECULES	REACTOME_APOPTOTIC_CLEAVAGE_OF_CELL_ADHESION_MOLECULES	0.98167482	1.089068031
GO:0031365	N-terminal protein amino acid modification	0.4188094	1.089074074
GO:0030017	sarcomere	0.98164578	1.089109521
MP:0003050	abnormal sacral vertebrae morphology	0.4206617	1.089128908
GO:0006413	translational initiation	0.42047532	1.089140749
REACTOME_INTEGRIN_ALPHAIIIB_BETA3_SIGNALING	REACTOME_INTEGRIN_ALPHAIIIB_BETA3_SIGNALING	0.42032052	1.08914572
GO:0030864	cortical actin cytoskeleton	0.418755	1.089151526
GO:0016776	phosphotransferase activity, phosphate group as acceptor	0.9816376	1.089185653
ENSG00000215719	ENSG00000215719 subnetwork	0.4207463	1.089209833
GO:0048487	beta-tubulin binding	0.42080288	1.089211728
ENSG00000073910	FRY subnetwork	0.42043079	1.089217926
MP:0005225	abnormal vertebrae development	0.98161182	1.089254099
ENSG00000171557	FGG subnetwork	0.4210567	1.089261274
MP:0008146	asymmetric rib-sternum attachment	0.42064482	1.089285087
GO:0042742	defense response to bacterium	0.42099172	1.089294489
REACTOME_DESTABILIZATION_OF_MRNA_BY_BUTYRATE	REACTOME_DESTABILIZATION_OF_MRNA_BY_BUTYRATE	0.42090928	1.08931894
ENSG00000170142	UBE2E1 subnetwork	0.9815863	1.089326405
GO:0031398	positive regulation of protein ubiquitination	0.98155533	1.089379475
GO:0001947	heart looping	0.98152504	1.089428703
MP:0005168	abnormal female meiosis	0.42130156	1.08945799
REACTOME_ANTIGEN_PROCESSING_AND_PRESENTATION	REACTOME_ANTIGEN_PROCESSING_UBIQUITINATION	0.42064451	1.089476458
ENSG00000169100	SLC25A6 subnetwork	0.4212555	1.089491228
GO:0061371	determination of heart left/right asymmetry	0.98152504	1.08951259
GO:0045070	positive regulation of viral genome replication	0.42187053	1.089523476
GO:0000782	telomere cap complex	0.42179064	1.089539162
GO:0005227	calcium activated cation channel activity	0.98151106	1.089581087
GO:0042976	activation of Janus kinase activity	0.42142823	1.089643985
GO:0048634	regulation of muscle organ development	0.98150466	1.089657297
GO:0034764	positive regulation of transmembrane transport	0.98149059	1.089729667
GO:0000783	nuclear telomere cap complex	0.42179064	1.089730109
ENSG00000131149	KIAA0182 subnetwork	0.42162755	1.089787868
ENSG00000081479	LRP2 subnetwork	0.98146778	1.089794346
MP:0001093	small trigeminal ganglion	0.98144103	1.089847481
GO:0071901	negative regulation of protein serine/threonine kinase activity	0.4217528	1.089868536
ENSG00000145332	KLHL8 subnetwork	0.42159882	1.089891285
GO:0007350	blastoderm segmentation	0.98143806	1.089931438
MP:0003492	abnormal involuntary movement	0.42210803	1.089936942
ENSG00000112448	ENSG00000112448 subnetwork	0.98143426	1.090007704
ENSG00000013364	MVP subnetwork	0.42228956	1.090063036
ENSG00000215641	TRIM27 subnetwork	0.98143426	1.090091687
ENSG00000204713	TRIM27 subnetwork	0.98143426	1.090175682
GO:0010863	positive regulation of phospholipase C activity	0.9812135	1.090177264
ENSG00000133958	UNC79 subnetwork	0.98117575	1.090191922
ENSG00000188763	FZD9 subnetwork	0.42227663	1.090210158
GO:0002040	sprouting angiogenesis	0.98138723	1.090213455
ENSG00000186340	THBS2 subnetwork	0.42241179	1.090222339
GO:0016055	Wnt receptor signaling pathway	0.9811636	1.090272104
MP:0005140	decreased cardiac muscle contractility	0.98138432	1.090293619
GO:0051084	'de novo' posttranslational protein folding	0.42252702	1.090320322
MP:0009940	abnormal hippocampus pyramidal cell morphology	0.98113958	1.090333025
MP:0003871	abnormal myelin sheath morphology	0.98111289	1.090386246

REACTOME_MEMBRANE_BINDING_AND_TARGETTING_OF	0.98109003	1.090435621
GO:0060415	muscle tissue morphogenesis	0.98102644
GO:0060174	limb bud formation	0.98099077
GO:0048477	oogenesis	0.9809542
GO:0035411	catenin import into nucleus	0.98093362
GO:0001078	RNA polymerase II core promoter proximal region sequence-specific DNA binding	0.98092852
GO:0035019	somatic stem cell maintenance	0.98080162
ENSG00000112096	SOD2 subnetwork	0.98088544
ENSG00000172531	PPP1CA subnetwork	0.42318346
MP:0008789	abnormal olfactory epithelium morphology	0.98078539
ENSG00000138741	TRPC3 subnetwork	0.42280413
GO:0043470	regulation of carbohydrate catabolic process	0.42343133
MP:0000492	abnormal rectum morphology	0.98077351
ENSG00000101557	USP14 subnetwork	0.42317425
GO:0008656	cysteine-type endopeptidase activator activity involved in a	0.98074834
ENSG00000132963	POMP subnetwork	0.42309709
ENSG00000108691	CCL2 subnetwork	0.98074082
GO:0043471	regulation of cellular carbohydrate catabolic process	0.42343133
ENSG00000174622	ENSG00000174622 subnetwork	0.98069911
MP:0001762	polyuria	0.42463751
GO:0032459	regulation of protein oligomerization	0.42306945
MP:0001386	abnormal maternal nurturing	0.98067294
GO:0071375	cellular response to peptide hormone stimulus	0.42365831
ENSG00000138592	USP8 subnetwork	0.42360643
GO:0032271	regulation of protein polymerization	0.42387715
GO:0016763	transferase activity, transferring pentosyl groups	0.42338005
GO:0008212	mineralocorticoid metabolic process	0.98067233
ENSG00000095564	BTAF1 subnetwork	0.42303565
ENSG00000138071	ACTR2 subnetwork	0.42463072
ENSG00000184357	HIST1H1B subnetwork	0.98067214
ENSG00000146535	GNA12 subnetwork	0.4237901
ENSG00000185627	PSMD13 subnetwork	0.42386598
ENSG00000137218	FRS3 subnetwork	0.98063176
MP:0005650	abnormal limb bud morphology	0.98059169
ENSG00000120053	GOT1 subnetwork	0.98058363
KEGG_ENDOMETRIAL_CANCER	KEGG_ENDOMETRIAL_CANCER	0.42462746
MP:0003356	impaired luteinization	0.42457762
ENSG00000145386	CCNA2 subnetwork	0.98057239
MP:0000788	abnormal cerebral cortex morphology	0.98056647
MP:0004957	abnormal blastocyst morphology	0.42456138
MP:0004890	decreased energy expenditure	0.42423068
GO:0009584	detection of visible light	0.98055356
ENSG00000167110	GOLGA2 subnetwork	0.42442363
GO:0060341	regulation of cellular localization	0.42415716
GO:0045930	negative regulation of mitotic cell cycle	0.42436729
GO:0003417	growth plate cartilage development	0.42450293
ENSG00000136250	AOAH subnetwork	0.98049913
GO:0006091	generation of precursor metabolites and energy	0.98054435
GO:0043499	eukaryotic cell surface binding	0.42528974
ENSG00000008311	AASS subnetwork	0.98048342
GO:0048741	skeletal muscle fiber development	0.98036222
REACTOME_TETRAHYDROBIOP	REACTOME_TETRAHYDROBIOP	0.98048153
ENSG00000108061	SHOC2 subnetwork	0.980314

GO:0008408	3'-5' exonuclease activity	0.42504792	1.091861276
ENSG00000172572	PDE3A subnetwork	0.4252794	1.091865529
GO:0055067	monovalent inorganic cation homeostasis	0.98030733	1.09189847
ENSG00000077264	PAK3 subnetwork	0.42520167	1.091907666
MP:0000633	abnormal pituitary gland morphology	0.98025481	1.09192489
GO:2001020	regulation of response to DNA damage stimulus	0.98019871	1.091931994
GO:0003995	acyl-CoA dehydrogenase activity	0.42514494	1.091949817
GO:0048013	ephrin receptor signaling pathway	0.98018455	1.091989335
GO:0060026	convergent extension	0.9801534	1.092031226
GO:0060198	clathrin sculpted vesicle	0.98013107	1.092092448
ENSG00000117394	SLC2A1 subnetwork	0.98008336	1.092145949
ENSG00000074266	EED subnetwork	0.42554786	1.092207905
REACTOME_SIGNALLING_TO_F	REACTOME_SIGNALLING_TO_P38_VIA_RIT_AND_RIN	0.98007084	1.092218786
ENSG00000196218	RYR1 subnetwork	0.42569402	1.09227154
ENSG00000087586	AURKA subnetwork	0.98006261	1.092291634
ENSG00000092969	TGFB2 subnetwork	0.42564011	1.092322423
GO:0048546	digestive tract morphogenesis	0.98005598	1.092372226
GO:0008250	oligosaccharyltransferase complex	0.98003387	1.092433498
ENSG00000099331	MYO9B subnetwork	0.98000853	1.092510247
ENSG00000102678	FGF9 subnetwork	0.97997238	1.092559938
ENSG00000128739	SNRPN subnetwork	0.42595239	1.09260355
MP:0003209	abnormal pulmonary elastic fiber morphology	0.97993838	1.09260577
GO:0050880	regulation of blood vessel size	0.97990423	1.092655476
GO:0030917	midbrain-hindbrain boundary development	0.42608014	1.092691839
MP:0006020	decreased tympanic ring size	0.9798826	1.092716794
REACTOME_AMINE_LIGAND:B	REACTOME_AMINE_LIGAND:BINDING_RECEPTORS	0.97985727	1.092785858
ENSG00000141759	TXNL4A subnetwork	0.4261999	1.092788796
MP:0002944	increased lactate dehydrogenase level	0.9798519	1.092858801
ENSG00000133083	DCLK1 subnetwork	0.9798461	1.092935624
GO:0043462	regulation of ATPase activity	0.97979327	1.092981506
MP:0004274	abnormal embryonic/fetal subventricular zone morphology	0.97977086	1.093015787
MP:0000864	abnormal cerebellum vermis morphology	0.97976699	1.09309651
ENSG00000164885	CDK5 subnetwork	0.97955171	1.093145224
GO:0005523	tropomyosin binding	0.97974225	1.093157895
GO:0044058	regulation of digestive system process	0.97951242	1.093191143
MP:0003924	herniated diaphragm	0.97969507	1.093199938
ENSG00000094880	CDC23 subnetwork	0.97945394	1.09323707
MP:0001491	unresponsive to tactile stimuli	0.97945223	1.093321719
ENSG00000159189	C1QC subnetwork	0.42694144	1.093327541
GO:0004629	phospholipase C activity	0.97944713	1.093402509
ENSG00000185722	ANKFY1 subnetwork	0.4268926	1.093456726
ENSG00000113578	FGF1 subnetwork	0.97944653	1.093487183
MP:0003038	decreased infarction size	0.42682339	1.093490353
GO:0090102	cochlea development	0.97942972	1.093552509
MP:0004401	increased cochlear outer hair cell number	0.97940896	1.093621718
GO:0016746	transferase activity, transferring acyl groups	0.42682015	1.093680459
GO:0000578	embryonic axis specification	0.97939277	1.093698683
ENSG00000113272	THG1L subnetwork	0.42896828	1.093772704
GO:0007202	activation of phospholipase C activity	0.97939042	1.093783407
ENSG00000115756	HPCAL1 subnetwork	0.42890347	1.09383218
ENSG00000140403	DNAJA4 subnetwork	0.9793883	1.093860397
ENSG00000156508	EEF1A1 subnetwork	0.42681638	1.093861937
ENSG00000006747	SCIN subnetwork	0.4288617	1.093874373

GO:0046886	positive regulation of hormone biosynthetic process	0.42720793	1.093910702
GO:0016860	intramolecular oxidoreductase activity	0.42671461	1.093911985
GO:0007029	endoplasmic reticulum organization	0.97937851	1.093937398
GO:0006275	regulation of DNA replication	0.42679674	1.093982609
GO:0014003	oligodendrocyte development	0.97937841	1.09402216
GO:0005605	basal lamina	0.42884776	1.094029076
ENSG00000116141	MARK1 subnetwork	0.42916784	1.094033207
ENSG00000125676	THOC2 subnetwork	0.42879752	1.094088627
ENSG00000149131	SERPING1 subnetwork	0.97936915	1.094091437
ENSG00000170458	CD14 subnetwork	0.97930311	1.094137022
ENSG00000076321	KLHL20 subnetwork	0.97935547	1.094152976
REACTOME_SIGNALLING_TO_F	REACTOME_SIGNALLING_TO_RAS	0.42876202	1.094182825
ENSG00000172380	GNG12 subnetwork	0.9792859	1.094202449
ENSG00000180871	CXCR2 subnetwork	0.42871573	1.09425974
ENSG00000183336	BOLA2 subnetwork	0.42832312	1.094263432
MP:0002574	increased vertical activity	0.97928146	1.094275638
REACTOME_COMPLEMENT_C3	REACTOME_COMPLEMENT_CASCADE	0.42857044	1.094283735
ENSG00000160224	AIRE subnetwork	0.42838883	1.094290418
MP:0000936	small telencephalic vesicles	0.42769402	1.094297865
ENSG00000103507	BCKDK subnetwork	0.42810902	1.094312467
MP:0005297	spina bifida occulta	0.4286543	1.094319363
ENSG00000104267	CA2 subnetwork	0.42798868	1.09432784
GO:0002793	positive regulation of peptide secretion	0.9792699	1.094348837
ENSG00000197459	HIST1H2BH subnetwork	0.4280499	1.094354839
ENSG00000158828	PINK1 subnetwork	0.42851895	1.094360707
GO:0006586	indolalkylamine metabolic process	0.97922938	1.094371657
ENSG00000169627	BOLA2B subnetwork	0.42832312	1.094453111
GO:0042430	indole-containing compound metabolic process	0.97922938	1.094456505
ENSG00000108306	FBXL20 subnetwork	0.42824402	1.094460818
ENSG00000149136	SSRP1 subnetwork	0.4276874	1.094461806
GO:0060740	prostate gland epithelium morphogenesis	0.43198769	1.09448264
ENSG00000071909	MYO3B subnetwork	0.42797591	1.094509022
ENSG00000204218	ENSG00000204218 subnetwork	0.97920617	1.094510351
MP:0010107	abnormal renal reabsorption	0.43189668	1.094516074
GO:0031128	developmental induction	0.97918733	1.09454482
GO:0030659	cytoplasmic vesicle membrane	0.97914725	1.094587049
REACTOME_REGULATION_OF	REACTOME_REGULATION_OF_GENE_EXPRESSION_IN_BETA	0.43185539	1.0946011
ENSG00000009335	UBE3C subnetwork	0.97900256	1.094601722
ENSG00000107485	GATA3 subnetwork	0.42795713	1.094620857
ENSG00000121152	NCAPH subnetwork	0.97909437	1.094621529
ENSG00000177106	EPS8L2 subnetwork	0.43165255	1.094624118
ENSG00000175220	ARHGAP1 subnetwork	0.43174578	1.094633643
REACTOME_SMOOTH_MUSCLE	REACTOME_SMOOTH_MUSCLE_CONTRACTION	0.4276808	1.094634485
ENSG00000188342	GTF2F2 subnetwork	0.42788512	1.094637279
REACTOME_REGULATION_OF	REACTOME_REGULATION_OF_WATER_BALANCE_BY_RENA	0.97899046	1.094682749
MP:0004025	polyploidy	0.42763799	1.094703022
GO:0001894	tissue homeostasis	0.42945992	1.094708629
ENSG00000091409	ITGA6 subnetwork	0.43162881	1.094726428
GO:0010389	regulation of G2/M transition of mitotic cell cycle	0.97897783	1.094736638
ENSG00000173156	RHOD subnetwork	0.42758226	1.094745527
ENSG00000160200	CBS subnetwork	0.4318492	1.094772141
GO:0035150	regulation of tube size	0.97896242	1.094806051
ENSG00000188985	ENSG00000188985 subnetwork	0.43157589	1.094811564

GO:0005283	sodium:amino acid symporter activity	0.97895591	1.094890992
GO:0030173	integral to Golgi membrane	0.43154379	1.094905336
ENSG00000163902	RPN1 subnetwork	0.42973581	1.094953336
GO:0006970	response to osmotic stress	0.4323574	1.094957045
GO:0012506	vesicle membrane	0.97895474	1.094964308
ENSG00000115514	TXNDC9 subnetwork	0.43082125	1.094982759
ENSG00000166582	CENPV subnetwork	0.4322953	1.094990548
GO:0016202	regulation of striated muscle tissue development	0.97894068	1.095033755
ENSG00000104368	PLAT subnetwork	0.42970836	1.095082109
ENSG00000126945	HNRNPH2 subnetwork	0.43146586	1.095092975
GO:0052689	carboxylic ester hydrolase activity	0.43154315	1.09509382
MP:0003887	increased hepatocyte apoptosis	0.43247113	1.095095344
ENSG00000163283	ALPP subnetwork	0.43072659	1.095101759
GO:0008542	visual learning	0.97892971	1.095107093
GO:0010458	exit from mitosis	0.97887978	1.095114474
GO:0042254	ribosome biogenesis	0.43141848	1.095126571
ENSG00000112049	ENSG00000112049 subnetwork	0.43080415	1.09512847
ENSG00000104980	TIMM44 subnetwork	0.43104384	1.095139607
MP:0000479	abnormal enterocyte morphology	0.42967371	1.095167704
GO:0006081	cellular aldehyde metabolic process	0.97887681	1.09518783
ENSG00000182901	RGS7 subnetwork	0.43058997	1.095220842
GO:0043406	positive regulation of MAP kinase activity	0.43070286	1.095238917
GO:0000155	two-component sensor activity	0.97885907	1.095253435
ENSG00000075651	PLD1 subnetwork	0.4313889	1.09526352
ENSG00000107862	GBF1 subnetwork	0.43051379	1.095271786
ENSG00000168827	GFM1 subnetwork	0.43043188	1.095296859
GO:0005088	Ras guanyl-nucleotide exchange factor activity	0.4310308	1.095302534
REACTOME_CHAPERONIN:MEI	REACTOME_CHAPERONIN:MEDIATED_PROTEIN_FOLDING	0.43125968	1.095330806
GO:0004673	protein histidine kinase activity	0.97885907	1.095338457
REACTOME_SLC:MEDIATED_TF	REACTOME_SLC:MEDIATED_TRANSMEMBRANE_TRANSPORT	0.4303727	1.095356465
GO:0006749	glutathione metabolic process	0.97883336	1.095376912
ENSG00000039650	PNKP subnetwork	0.43119775	1.095398932
ENSG00000183791	TCEB3C subnetwork	0.43136722	1.095417743
GO:0034369	plasma lipoprotein particle remodeling	0.97881203	1.095427019
MP:0003566	abnormal cell adhesion	0.43017861	1.095466321
MP:0011093	complete embryonic lethality at implantation	0.4302656	1.095475738
ENSG00000101158	TH1L subnetwork	0.43034137	1.095476519
GO:0034367	macromolecular complex remodeling	0.97881203	1.095512074
GO:0034368	protein-lipid complex remodeling	0.97881203	1.095597142
MP:0009450	abnormal axon fasciculation	0.97876624	1.095627864
REACTOME_ACTIVATION_OF_	REACTOME_ACTIVATION_OF_CHAPERONES_BY_IRE1ALPHA	0.43017362	1.095646917
GO:0001885	endothelial cell development	0.97862539	1.095673786
MP:0004929	decreased epididymis weight	0.97874741	1.095705188
ENSG00000070193	FGF10 subnetwork	0.97862378	1.095758894
ENSG00000076944	STXBP2 subnetwork	0.43014881	1.095775743
MP:0002199	abnormal brain commissure morphology	0.97859639	1.095824594
GO:0016010	dystrophin-associated glycoprotein complex	0.97858692	1.095898073
MP:0003229	abnormal vitelline vasculature morphology	0.43292384	1.095921346
ENSG00000100764	PSMC1 subnetwork	0.43013695	1.095930534
ENSG00000144283	PKP4 subnetwork	0.97846759	1.095951826
GO:0031461	cullin-RING ubiquitin ligase complex	0.9785584	1.095975449
GO:0015295	solute:hydrogen symporter activity	0.43287231	1.095989351
MP:0003008	enhanced long term potentiation	0.97843035	1.096021447

GO:0006576	cellular biogenic amine metabolic process	0.97840851	1.096067765
GO:0045078	positive regulation of interferon-gamma biosynthetic process	0.97838549	1.096129634
GO:0051147	regulation of muscle cell differentiation	0.9783803	1.09621483
MP:0006009	abnormal neuronal migration	0.97824498	1.096283915
GO:0003924	GTPase activity	0.97836912	1.096288379
GO:0004129	cytochrome-c oxidase activity	0.97821848	1.0963225
GO:0007605	sensory perception of sound	0.97835663	1.096365827
GO:0016676	oxidoreductase activity, acting on a heme group of donors,	0.97821848	1.096407744
GO:0015002	heme-copper terminal oxidase activity	0.97821848	1.096493002
GO:0048841	regulation of axon extension involved in axon guidance	0.97819032	1.096547165
ENSG00000178409	BEND3 subnetwork	0.43327189	1.096557349
GO:0000381	regulation of alternative nuclear mRNA splicing, via spliceos	0.97807517	1.096581629
GO:0010959	regulation of metal ion transport	0.97816662	1.096605226
MP:0000877	abnormal Purkinje cell morphology	0.97803204	1.096643591
GO:0051168	nuclear export	0.43344312	1.096644353
GO:0006692	prostanoid metabolic process	0.97802886	1.09672112
ENSG00000113595	TRIM23 subnetwork	0.43342404	1.096772532
ENSG00000041982	TNC subnetwork	0.97801701	1.096786992
MP:0003672	abnormal ureter development	0.97797883	1.096848985
REACTOME_TRANSCRIPTION_OF_THE_HIV_GENOME	REACTOME_TRANSCRIPTION_OF_THE_HIV_GENOME	0.43365856	1.096902351
GO:0060079	regulation of excitatory postsynaptic membrane potential	0.9779535	1.096903206
GO:0032413	negative regulation of ion transmembrane transporter activ	0.97794746	1.09698467
KEGG_CYTOSOLIC_DNA_SENSING_PATHWAY	KEGG_CYTOSOLIC_DNA_SENSING_PATHWAY	0.4337969	1.097040151
MP:0002752	abnormal somatic nervous system morphology	0.97793463	1.097054475
GO:0009743	response to carbohydrate stimulus	0.97791021	1.097116507
ENSG00000072315	TRPC5 subnetwork	0.97790617	1.097198007
GO:0033124	regulation of GTP catabolic process	0.4339546	1.097212215
GO:0007076	mitotic chromosome condensation	0.9778746	1.097244493
GO:0060350	endochondral bone morphogenesis	0.97783008	1.097314339
GO:0045165	cell fate commitment	0.9778294	1.097399766
MP:0002561	abnormal circadian phase	0.97777948	1.097438493
ENSG00000099365	STX1B subnetwork	0.97766757	1.097461455
ENSG00000138180	CEP55 subnetwork	0.97763664	1.097504088
GO:0001838	embryonic epithelial tube formation	0.97777924	1.097523943
REACTOME_MRNA_3:END_PROCESSING	REACTOME_MRNA_3:END_PROCESSING	0.97752299	1.09753096
ENSG00000142186	SCYL1 subnetwork	0.97759298	1.097562305
ENSG00000137309	HMGA1 subnetwork	0.43411892	1.097564322
REACTOME_EXTENSION_OF_TELOMERES	REACTOME_EXTENSION_OF_TELOMERES	0.4341848	1.097573315
REACTOME_POST:ELONGATION_PROCESSING_OF_INTRON	REACTOME_POST:ELONGATION_PROCESSING_OF_INTRON	0.97752299	1.097616451
ENSG00000078018	MAP2 subnetwork	0.97751617	1.097686375
GO:0005003	ephrin receptor activity	0.97737952	1.09768991
ENSG00000108821	COL1A1 subnetwork	0.97748352	1.097721253
GO:0014829	vascular smooth muscle contraction	0.97735391	1.097748169
GO:0021983	pituitary gland development	0.97732939	1.097806437
GO:0031145	anaphase-promoting complex-dependent proteasomal ubiq	0.97732878	1.097891989
MP:0003044	impaired basement membrane formation	0.97732365	1.097969761
GO:0045687	positive regulation of glial cell differentiation	0.43473926	1.097969848
ENSG00000124614	RPS10 subnetwork	0.43448574	1.097977027
GO:0007281	germ cell development	0.97729238	1.098012471
GO:0006833	water transport	0.97724303	1.098027906
ENSG00000118579	MED28 subnetwork	0.43506205	1.098031159
KEGG_ADHERENS_JUNCTION	KEGG_ADHERENS_JUNCTION	0.4346313	1.098046272
MP:0000279	ventricular hypoplasia	0.43468971	1.098055175

GO:0004033	aldo-keto reductase (NADP) activity	0.43495516	1.098081863
GO:0007173	epidermal growth factor receptor signaling pathway	0.43488324	1.098098664
ENSG00000116044	NFE2L2 subnetwork	0.43516954	1.098099966
GO:0048846	axon extension involved in axon guidance	0.97723694	1.098101809
MP:0001712	abnormal placenta development	0.4345911	1.098131642
ENSG00000169564	PCBP1 subnetwork	0.4344657	1.098139575
GO:0030900	forebrain development	0.97723529	1.098187417
GO:0070410	co-SMAD binding	0.43506059	1.098219178
MP:0004000	impaired passive avoidance behavior	0.97723031	1.098273039
REACTOME_ADENYLATE_CYCL	REACTOME_ADENYLATE_CYCLASE_ACTIVATING_PATHWAY	0.97719974	1.098315789
GO:0060037	pharyngeal system development	0.97718052	1.098374142
GO:0048709	oligodendrocyte differentiation	0.97715136	1.098413008
GO:0030513	positive regulation of BMP signaling pathway	0.97715003	1.098486976
GO:0019363	pyridine nucleotide biosynthetic process	0.97714137	1.098564855
GO:0072525	pyridine-containing compound biosynthetic process	0.97714137	1.098650546
ENSG00000157152	ENSG00000157152 subnetwork	0.97712749	1.098712848
ENSG00000157500	APPL1 subnetwork	0.97710306	1.098782961
MP:0000160	kyphosis	0.97708182	1.098825778
MP:0003728	abnormal retinal photoreceptor layer morphology	0.97696136	1.0988373
ENSG00000115884	SDC1 subnetwork	0.97692719	1.098880131
GO:0006901	vesicle coating	0.97708173	1.098911517
ENSG00000071564	TCF3 subnetwork	0.97691306	1.098958089
GO:0034035	purine ribonucleoside bisphosphate metabolic process	0.97690982	1.099039963
GO:0050427	3'-phosphoadenosine 5'-phosphosulfate metabolic process	0.97690982	1.099125751
ENSG00000165556	CDX2 subnetwork	0.43563743	1.099144275
GO:0034032	purine nucleoside bisphosphate metabolic process	0.97690982	1.099211553
GO:0033875	ribonucleoside bisphosphate metabolic process	0.97690982	1.099297369
GO:0032561	guanyl ribonucleotide binding	0.9769083	1.099379294
GO:0019001	guanyl nucleotide binding	0.9769083	1.099465136
GO:0045168	cell-cell signaling involved in cell fate commitment	0.97687069	1.099511948
GO:0015838	betaine transport	0.97685189	1.099554861
GO:0015879	carnitine transport	0.97685189	1.099640737
GO:0070169	positive regulation of biomineral tissue development	0.97666258	1.099644559
GO:0006944	cellular membrane fusion	0.97679687	1.099644615
GO:0090207	regulation of triglyceride metabolic process	0.43608922	1.099666439
MP:0004359	short ulna	0.97675387	1.099691454
MP:0002133	abnormal respiratory system physiology	0.97665261	1.099730469
REACTOME_REGULATION_OF	REACTOME_REGULATION_OF_APOPTOSIS	0.43596474	1.099760438
ENSG00000168490	PHYHIP subnetwork	0.97660638	1.099765607
ENSG00000148396	SEC16A subnetwork	0.43604333	1.099786142
ENSG00000118690	ARMC2 subnetwork	0.97659965	1.099851539
GO:0001829	trophoblast cell differentiation	0.97657886	1.099914042
ENSG00000107789	MINPP1 subnetwork	0.97651325	1.09995311
GO:0006888	ER to Golgi vesicle-mediated transport	0.97650183	1.100027354
ENSG00000105926	MPP6 subnetwork	0.97648898	1.100105518
ENSG00000213555	ENSG00000213555 subnetwork	0.43640405	1.100145349
ENSG00000130164	LDLR subnetwork	0.97646871	1.100168061
KEGG_ARRHYTHMOGENIC_RIG	KEGG_ARRHYTHMOGENIC_RIGHT_VENTRICULAR_CARDIOM	0.97644865	1.100226704
ENSG00000172500	FIBP subnetwork	0.9764177	1.100281448
MP:0008025	brain vacuoles	0.43638042	1.100282196
ENSG00000116544	DLGAP3 subnetwork	0.43651675	1.100307745
MP:0000350	abnormal cell proliferation	0.97641262	1.100363565
GO:0050819	negative regulation of coagulation	0.97635236	1.100379232

GO:0050768	negative regulation of neurogenesis	0.97634744	1.10045355
ENSG00000114739	ACVR2B subnetwork	0.43664808	1.100521368
MP:0006092	abnormal olfactory neuron morphology	0.97634222	1.10053179
GO:0051597	response to methylmercury	0.97626873	1.100531832
GO:0021953	central nervous system neuron differentiation	0.97624764	1.100582714
ENSG00000155329	ZCCHC10 subnetwork	0.97617966	1.100590582
GO:0033003	regulation of mast cell activation	0.97613605	1.1006493
MP:0000534	abnormal ureter morphology	0.97612648	1.100723674
ENSG00000183873	SCN5A subnetwork	0.97612228	1.100801972
MP:0001516	abnormal motor coordination/ balance	0.97610457	1.100884194
GO:0022406	membrane docking	0.97608394	1.100954691
ENSG00000198947	DMD subnetwork	0.97600373	1.100958679
GO:0001658	branching involved in ureteric bud morphogenesis	0.97599756	1.10103702
GO:0051898	negative regulation of protein kinase B signaling cascade	0.97598473	1.101107545
GO:0046513	ceramide biosynthetic process	0.97598217	1.101181996
ENSG00000127184	COX7C subnetwork	0.97591743	1.101209488
ENSG00000172466	ZNF24 subnetwork	0.97582182	1.101287974
ENSG00000127928	GNGT1 subnetwork	0.97589954	1.101291787
ENSG00000108797	CNTNAP1 subnetwork	0.97574934	1.101354738
GO:0051443	positive regulation of ubiquitin-protein ligase activity	0.97582176	1.101374207
GO:0001518	voltage-gated sodium channel complex	0.97574602	1.10144099
ENSG00000084674	APOB subnetwork	0.9755916	1.101456881
REACTOME_CYTOSOLIC_SULF	REACTOME_CYTOSOLIC_SULFONATION_OF_SMALL_MOLEC	0.97569681	1.101480263
GO:0005272	sodium channel activity	0.97556846	1.101519662
GO:0006641	triglyceride metabolic process	0.43752765	1.101536623
GO:0090009	primitive streak formation	0.97536912	1.101543524
REACTOME_RHO_GTPASE_CYC	REACTOME_RHO_GTPASE_CYCLE	0.43746513	1.1015625
MP:0000516	abnormal renal/urinary system morphology	0.97544614	1.101566907
ENSG00000078900	TP73 subnetwork	0.43763385	1.101570502
GO:0050780	dopamine receptor binding	0.97553267	1.101570701
ENSG00000175279	APITD1 subnetwork	0.97534578	1.101602413
MP:0003459	increased fear-related response	0.43773979	1.101629971
ENSG00000079459	FDFT1 subnetwork	0.4378288	1.101672355
MP:0008947	increased neuron number	0.97534142	1.101688739
GO:0031362	anchored to external side of plasma membrane	0.9753204	1.101735893
REACTOME_SIGNALING_BY_RH	REACTOME_SIGNALING_BY_RHO_GTPASES	0.43746513	1.10175064
ENSG00000173692	PSMD1 subnetwork	0.43732234	1.101768324
GO:0060078	regulation of postsynaptic membrane potential	0.975245	1.10180671
GO:0003206	cardiac chamber morphogenesis	0.97531791	1.101822243
ENSG00000120149	MSX2 subnetwork	0.9752405	1.101885239
GO:0006664	glycolipid metabolic process	0.97519161	1.101908906
ENSG00000137818	RPLP1 subnetwork	0.43746422	1.101930304
ENSG00000132139	GAS2L2 subnetwork	0.43731771	1.101956596
GO:0006687	glycosphingolipid metabolic process	0.97517337	1.101979616
GO:0003401	axis elongation	0.97515548	1.102054257
GO:0048705	skeletal system morphogenesis	0.97509738	1.10206226
REACTOME_MEIOTIC_SYNAPSI	REACTOME_MEIOTIC_SYNAPSIS	0.43841039	1.102088305
ENSG00000101003	GIN51 subnetwork	0.43727588	1.102093659
GO:0060840	artery development	0.97506463	1.102113394
ENSG00000143761	ARF1 subnetwork	0.43816159	1.102132378
GO:0042417	dopamine metabolic process	0.97506327	1.102195906
ENSG00000078061	ARAF subnetwork	0.43838221	1.102199488
GO:0034332	adherens junction organization	0.97504606	1.102262745

ENSG00000147162	OGT subnetwork	0.4381544	1.10229483
ENSG00000068793	CYFIP1 subnetwork	0.97501969	1.102325673
ENSG00000171862	PTEN subnetwork	0.43834915	1.102344816
REACTOME_SYNTHESIS_OF_DNA	REACTOME_SYNTHESIS_OF_DNA	0.4382815	1.102353744
ENSG00000163132	MSX1 subnetwork	0.97500303	1.102392532
MP:0002812	spherocytosis	0.97496312	1.102447635
ENSG00000092964	DPYSL2 subnetwork	0.9749133	1.102471364
GO:0051196	regulation of coenzyme metabolic process	0.97487335	1.102518635
MP:0000273	overriding aorta	0.97477659	1.10258181
GO:0051193	regulation of cofactor metabolic process	0.97487335	1.102605148
GO:0050954	sensory perception of mechanical stimulus	0.97476788	1.102660493
MP:0003148	decreased cochlear coiling	0.97475734	1.10273134
MP:0001433	polyphagia	0.97475441	1.102813972
ENSG00000120549	KIAA1217 subnetwork	0.97469943	1.102837742
GO:0035964	COPI-coated vesicle budding	0.97465456	1.102881143
GO:0048200	Golgi transport vesicle coating	0.97465456	1.102967732
GO:0048205	COPI coating of Golgi vesicle	0.97465456	1.103054334
GO:0044460	flagellum part	0.9746112	1.103085984
GO:0044442	microtubule-based flagellum part	0.9746112	1.103172609
GO:0048853	forebrain morphogenesis	0.97459876	1.10324354
REACTOME_AQUAPORIN:MEDIATED_TRANSPORT	REACTOME_AQUAPORIN:MEDIATED_TRANSPORT	0.97455322	1.103286993
GO:0009395	phospholipid catabolic process	0.9745523	1.103373655
GO:0016874	ligase activity	0.43907616	1.103459441
MP:0002082	postnatal lethality	0.97455181	1.10346033
GO:0046885	regulation of hormone biosynthetic process	0.43901545	1.103502642
GO:0002016	regulation of blood volume by renin-angiotensin	0.97450463	1.103511666
GO:0019318	hexose metabolic process	0.43927303	1.103534923
ENSG00000170558	CDH2 subnetwork	0.9744429	1.103590791
ENSG00000116711	PLA2G4A subnetwork	0.97437543	1.103591073
MP:0000572	abnormal autpod morphology	0.97450407	1.103598366
GO:0030291	protein serine/threonine kinase inhibitor activity	0.97436281	1.103669941
GO:0006639	acylglycerol metabolic process	0.43926826	1.103697393
ENSG00000162645	GBP2 subnetwork	0.97432676	1.103717384
GO:0001967	suckling behavior	0.97422354	1.103780852
MP:0000231	hypertension	0.43976573	1.10378659
ENSG00000160867	FGFR4 subnetwork	0.97432067	1.103800204
MP:0008572	abnormal Purkinje cell dendrite morphology	0.97416991	1.103828315
ENSG00000088305	DNMT3B subnetwork	0.43973274	1.103838298
REACTOME_INHIBITION_OF_ADENYLATE_CYCLASE_PATHWAY	REACTOME_INHIBITION_OF_ADENYLATE_CYCLASE_PATHWAY	0.97416865	1.103911164
GO:0010042	response to manganese ion	0.43993491	1.103973116
REACTOME_INTERACTIONS_OF_REV_WITH_HOST_CELLULAR_COMPONENTS	REACTOME_INTERACTIONS_OF_REV_WITH_HOST_CELLULAR_COMPONENTS	0.4397134	1.103975145
ENSG00000009844	VTA1 subnetwork	0.43966288	1.103992849
MP:0009254	disorganized pancreatic islets	0.97408465	1.103994339
REACTOME_ADENYLATE_CYCLASE_INHIBITORY_PATHWAY	REACTOME_ADENYLATE_CYCLASE_INHIBITORY_PATHWAY	0.97416865	1.103997956
REACTOME_SCF:BETA:TRCP_MEDIATED_DEGRADATION_OF_PEP_TIDE	REACTOME_SCF:BETA:TRCP_MEDIATED_DEGRADATION_OF_PEP_TIDE	0.43955594	1.104019758
GO:0005546	phosphatidylinositol-4,5-bisphosphate binding	0.97404776	1.104022175
ENSG00000173366	ENSG00000173366 subnetwork	0.97399019	1.104053948
GO:0021904	dorsal/ventral neural tube patterning	0.97394401	1.104073928
ENSG00000164494	PDSS2 subnetwork	0.97389995	1.10410571
ENSG00000151247	EIF4E subnetwork	0.43964103	1.104112738
GO:0007210	serotonin receptor signaling pathway	0.9738938	1.104192559
ENSG00000176732	PFN4 subnetwork	0.97384889	1.104224355
GO:0030199	collagen fibril organization	0.97378961	1.104236488

GO:0061178	regulation of insulin secretion involved in cellular response	0.97376924	1.104307632
ENSG00000105486	LIG1 subnetwork	0.44015016	1.104355223
ENSG00000161217	PCYT1A subnetwork	0.44034247	1.104362245
GO:0035773	insulin secretion involved in cellular response to glucose sti	0.97376924	1.104394524
MP:0003073	abnormal metacarpal bone morphology	0.97374984	1.104453887
ENSG00000062038	CDH3 subnetwork	0.44030254	1.10445654
MP:0001442	decreased grooming behavior	0.97367559	1.104493586
GO:0090109	regulation of cell-substrate junction assembly	0.97364895	1.104556902
GO:0051893	regulation of focal adhesion assembly	0.97364895	1.104643841
ENSG00000009830	POMT2 subnetwork	0.44052502	1.10465057
MP:0000955	abnormal spinal cord morphology	0.97358668	1.1046875
ENSG00000187672	ERC2 subnetwork	0.97356068	1.104750846
GO:0010821	regulation of mitochondrion organization	0.44061234	1.104768786
ENSG00000138030	KHK subnetwork	0.97351553	1.104802393
REACTOME_RIBOSOMAL_SCANNING_AND_START_CODON	REACTOME_RIBOSOMAL_SCANNING_AND_START_CODON	0.97350956	1.104889379
GO:0016675	oxidoreductase activity, acting on a heme group of donors	0.9735092	1.104976378
ENSG00000198055	GRK6 subnetwork	0.97346723	1.105012206
ENSG00000126267	COX6B1 subnetwork	0.97341633	1.105036226
GO:0048747	muscle fiber development	0.97340908	1.105123257
GO:0034381	plasma lipoprotein particle clearance	0.97339513	1.105198488
MP:0001362	abnormal anxiety-related response	0.97336606	1.105257976
MP:0003419	delayed endochondral bone ossification	0.97330736	1.105270206
MP:0000531	right pulmonary isomerism	0.9730853	1.105291151
GO:0070979	protein K11-linked ubiquitination	0.97315756	1.105302553
GO:0045909	positive regulation of vasodilation	0.973262	1.105310013
MP:0003271	abnormal duodenum morphology	0.97297031	1.105362913
GO:0042069	regulation of catecholamine metabolic process	0.97308055	1.10537431
GO:0051491	positive regulation of filopodium assembly	0.44086054	1.105388407
MP:0003014	abnormal kidney medulla morphology	0.97294327	1.105438209
GO:0019783	small conjugating protein-specific protease activity	0.44106695	1.105470608
GO:0007620	copulation	0.97293461	1.105513518
ENSG00000108001	EBF3 subnetwork	0.44099937	1.105582937
ENSG00000115561	CHMP3 subnetwork	0.972932	1.105596721
GO:0006956	complement activation	0.44104497	1.105607477
MP:0003243	abnormal dopaminergic neuron morphology	0.97290783	1.105660229
GO:0030119	AP-type membrane coat adaptor complex	0.44123035	1.105715984
ENSG00000161835	GRASP subnetwork	0.97249049	1.105733891
ENSG00000108963	DPH1 subnetwork	0.97290769	1.105747398
GO:0017085	response to insecticide	0.97276998	1.105799558
ENSG00000013455	ENSG00000013455 subnetwork	0.44134048	1.105799932
ENSG00000130203	APOE subnetwork	0.97248606	1.10581322
MP:0004835	abnormal miniature endplate potential	0.97290164	1.105830639
GO:0048588	developmental cell growth	0.9723859	1.105849637
ENSG00000164776	PHKG1 subnetwork	0.97274615	1.105867045
ENSG00000003436	TFPI subnetwork	0.97245885	1.105868896
ENSG00000157601	MX1 subnetwork	0.9723402	1.105881657
GO:0048562	embryonic organ morphogenesis	0.97270638	1.105899054
GO:0051082	unfolded protein binding	0.44147162	1.105926303
GO:0060537	muscle tissue development	0.97233774	1.105961023
GO:0000087	M phase of mitotic cell cycle	0.97231835	1.106016728
ENSG00000007402	CACNA2D2 subnetwork	0.97231414	1.106104009
ENSG00000109911	ELP4 subnetwork	0.44167435	1.106127992
ENSG00000105357	MYH14 subnetwork	0.44184696	1.106168335

ENSG00000137462	TLR2 subnetwork	0.97227848	1.106175519
GO:0006693	prostaglandin metabolic process	0.97224735	1.106219416
GO:0035809	regulation of urine volume	0.9721859	1.106231747
ENSG00000123643	SLC36A1 subnetwork	0.44181544	1.106237271
ENSG00000147889	CDKN2A subnetwork	0.44165021	1.106273345
ENSG00000012211	PRICKLE3 subnetwork	0.97218451	1.106319072
ENSG00000169282	KCNAB1 subnetwork	0.97217741	1.106402463
ENSG00000167460	TPM4 subnetwork	0.97213445	1.106446392
MP:0002761	abnormal hippocampal mossy fiber morphology	0.97212605	1.106529807
GO:0042383	sarcolemma	0.97179411	1.106547666
GO:0015909	long-chain fatty acid transport	0.97173813	1.106563981
GO:0055001	muscle cell development	0.97189697	1.106570842
MP:0003934	abnormal pancreas development	0.97209139	1.106577701
GO:0043666	regulation of phosphoprotein phosphatase activity	0.44211932	1.106582966
GO:0003073	regulation of systemic arterial blood pressure	0.97169951	1.106600047
ENSG00000125266	EFNB2 subnetwork	0.97204358	1.106625602
ENSG00000119041	GTF3C3 subnetwork	0.44219496	1.106675148
ENSG00000049540	ELN subnetwork	0.97169069	1.10667957
ENSG00000122877	EGR2 subnetwork	0.97168531	1.106763056
GO:0001750	photoreceptor outer segment	0.9716627	1.106830752
ENSG00000039560	RAI14 subnetwork	0.44231972	1.106843623
MP:0002950	abnormal neural crest cell migration	0.97162447	1.106866851
GO:0001562	response to protozoan	0.97151555	1.106919308
GO:0045667	regulation of osteoblast differentiation	0.97162192	1.10694642
GO:0031532	actin cytoskeleton reorganization	0.9714931	1.106979134
GO:0051439	regulation of ubiquitin-protein ligase activity involved in mi	0.97145478	1.107031065
ENSG00000143549	TPM3 subnetwork	0.97141263	1.107083004
GO:0032412	regulation of ion transmembrane transporter activity	0.97141031	1.107170527
ENSG00000163875	MEAF6 subnetwork	0.97140404	1.107246205
REACTOME_PROTEIN_FOLDING	REACTOME_PROTEIN_FOLDING	0.44277519	1.107271186
GO:0042348	NF-kappaB import into nucleus	0.44260466	1.107290607
GO:0045055	regulated secretory pathway	0.97138715	1.107317941
GO:0033275	actin-myosin filament sliding	0.97137849	1.107385735
ENSG00000165059	PRKACG subnetwork	0.44275051	1.107399559
GO:0030049	muscle filament sliding	0.97137849	1.10747331
GO:0042345	regulation of NF-kappaB import into nucleus	0.44260466	1.107478379
ENSG00000077782	FGFR1 subnetwork	0.9713644	1.107537172
GO:0060572	morphogenesis of an epithelial bud	0.97134366	1.107624773
ENSG00000117601	SERPINC1 subnetwork	0.97134095	1.107708432
ENSG00000171431	KRT20 subnetwork	0.97133142	1.10778815
ENSG00000166930	MS4A5 subnetwork	0.97130553	1.107828323
GO:0014009	glial cell proliferation	0.97126825	1.107888282
ENSG00000069248	NUP133 subnetwork	0.97126608	1.107975946
GO:0070252	actin-mediated cell contraction	0.97122648	1.1080201
ENSG00000066136	NFYC subnetwork	0.97120989	1.108091959
GO:0050982	detection of mechanical stimulus	0.97118411	1.108155916
REACTOME_MEMBRANE_TRAFFICKING	REACTOME_MEMBRANE_TRAFFICKING	0.97117542	1.10822384
GO:0055117	regulation of cardiac muscle contraction	0.97115771	1.108275944
ENSG00000116171	SCP2 subnetwork	0.44329749	1.108286731
GO:0050879	multicellular organismal movement	0.44359763	1.108298052
GO:0007088	regulation of mitosis	0.97110859	1.108316181
GO:0046688	response to copper ion	0.44384736	1.108334744
GO:0051783	regulation of nuclear division	0.97110859	1.108403927

ENSG00000146587	RBAK subnetwork	0.44380789	1.108437712
GO:0034361	very-low-density lipoprotein particle	0.97108439	1.108467933
ENSG00000141720	PIP4K2B subnetwork	0.44422295	1.108479878
GO:0050881	musculoskeletal movement	0.44359763	1.108485772
ENSG00000133104	SPG20 subnetwork	0.44345973	1.108488648
GO:0034385	triglyceride-rich lipoprotein particle	0.97108439	1.108555705
ENSG00000156304	SCAF4 subnetwork	0.4451159	1.108563955
ENSG00000128052	KDR subnetwork	0.44380542	1.108608431
ENSG00000171858	RPS21 subnetwork	0.97107137	1.108627653
ENSG00000162290	ENSG00000162290 subnetwork	0.44357811	1.108648145
ENSG00000185129	PURA subnetwork	0.44421708	1.108658887
ENSG00000146276	GABRR1 subnetwork	0.44377662	1.10866915
ENSG00000198478	SH3BGR2 subnetwork	0.9710544	1.108695652
ENSG00000128708	HAT1 subnetwork	0.44413065	1.108704111
GO:0007183	SMAD protein complex assembly	0.44510849	1.108708861
GO:0001756	somitogenesis	0.97102065	1.108739902
MP:0000939	decreased motor neuron number	0.44526062	1.108756538
MP:0002978	absent otoliths	0.44420449	1.108804127
MP:0005669	increased circulating leptin level	0.4450591	1.108811614
GO:0010517	regulation of phospholipase activity	0.97101963	1.108827723
GO:2001251	negative regulation of chromosome organization	0.44411519	1.108866328
ENSG00000149294	NCAM1 subnetwork	0.97097992	1.10887199
ENSG00000198301	SDAD1 subnetwork	0.44501604	1.108872193
GO:0044283	small molecule biosynthetic process	0.44443577	1.108909552
GO:2000108	positive regulation of leukocyte apoptotic process	0.44497847	1.108932793
GO:0001725	stress fiber	0.44540857	1.108949055
ENSG00000005249	PRKAR2B subnetwork	0.97097611	1.108959835
MP:0002067	abnormal sensory capabilities/reflexes/nociception	0.97097373	1.109043733
ENSG00000011304	PTBP1 subnetwork	0.4449548	1.109052525
REACTOME_PROSTACYCLIN_SI	REACTOME_PROSTACYCLIN_SIGNALING_THROUGH_PROS	0.97096809	1.109115759
ENSG00000104131	EIF3J subnetwork	0.97092284	1.109148177
MP:0002332	abnormal exercise endurance	0.97091508	1.109228148
REACTOME_MRNA_SPLICING_	REACTOME_MRNA_SPLICING_:_MINOR_PATHWAY	0.44495269	1.109239865
ENSG00000188612	SUMO2 subnetwork	0.44470838	1.109253
GO:0031076	embryonic camera-type eye development	0.97091173	1.109308131
ENSG00000198898	CAPZA2 subnetwork	0.44468823	1.10938979
GO:0005501	retinoid binding	0.97091041	1.10939209
ENSG00000196943	C14orf21 subnetwork	0.44492626	1.109401926
GO:0060070	canonical Wnt receptor signaling pathway	0.97086174	1.109420577
GO:0044060	regulation of endocrine process	0.97080228	1.109429251
GO:0006029	proteoglycan metabolic process	0.97075864	1.109469637
MP:0001260	increased body weight	0.4448957	1.109513349
GO:0051351	positive regulation of ligase activity	0.97074551	1.109545707
ENSG00000157766	ACAN subnetwork	0.97068249	1.109598002
ENSG00000140105	WARS subnetwork	0.9705621	1.109674861
MP:0004833	ovary atrophy	0.97068216	1.109685988
ENSG00000102898	NUTF2 subnetwork	0.97055204	1.109747006
ENSG00000156970	BUB1B subnetwork	0.97048264	1.109763642
MP:0001963	abnormal hearing physiology	0.97045978	1.109819941
MP:0001044	abnormal enteric nervous system morphology	0.97036976	1.109873066
MP:0002578	impaired ability to fire action potentials	0.97044437	1.109888149
GO:0045773	positive regulation of axon extension	0.97033097	1.109921454
ENSG00000110876	SELPLG subnetwork	0.97028703	1.109965881

ENSG00000100596	SPTLC2 subnetwork	0.44592016	1.110016863
ENSG00000075856	SART3 subnetwork	0.44585994	1.110035419
ENSG00000109332	UBE2D3 subnetwork	0.44602688	1.110048896
MP:0001529	abnormal vocalization	0.97028526	1.11005396
GO:0002444	myeloid leukocyte mediated immunity	0.97027118	1.110130148
ENSG00000175166	PSMD2 subnetwork	0.44629754	1.110163492
MP:0002080	prenatal lethality	0.44621498	1.110182063
GO:0072372	primary cilium	0.97025719	1.110202381
GO:0016765	transferase activity, transferring alkyl or aryl (other than me	0.97025233	1.110286531
MP:0002884	abnormal branchial arch morphology	0.9702014	1.110323067
ENSG00000111907	TPD52L1 subnetwork	0.97007149	1.110380279
GO:0090101	negative regulation of transmembrane receptor protein ser	0.97020036	1.110403271
ENSG00000087338	GMCL1 subnetwork	0.44644663	1.110431412
ENSG00000185883	ATP6V0C subnetwork	0.97005491	1.1104605
MP:0004792	abnormal synaptic vesicle number	0.97004595	1.110536764
GO:0022898	regulation of transmembrane transporter activity	0.97003145	1.110609069
MP:0010090	increased circulating creatine kinase level	0.96995962	1.110629765
ENSG00000135250	SRPK2 subnetwork	0.96991468	1.110678262
MP:0001921	reduced fertility	0.96988885	1.11073471
MP:0001765	abnormal ion homeostasis	0.96981347	1.110739535
GO:0030048	actin filament-based movement	0.96980503	1.110819828
MP:0003974	abnormal endocardium morphology	0.96975731	1.110848494
ENSG00000080845	DLGAP4 subnetwork	0.44680913	1.110865903
REACTOME_FORMATION_OF_	REACTOME_FORMATION_OF_FIBRIN_CLOT_CLOTTING_CA	0.96964252	1.110909813
GO:0003085	negative regulation of systemic arterial blood pressure	0.969751	1.110932782
MP:0002699	abnormal vitreous body morphology	0.96949532	1.110960102
GO:0048306	calcium-dependent protein binding	0.96963157	1.110974253
GO:0042278	purine nucleoside metabolic process	0.96942883	1.110980844
MP:0005272	abnormal temporal bone morphology	0.9695853	1.110994993
MP:0000150	abnormal rib morphology	0.96937357	1.111021463
GO:0051881	regulation of mitochondrial membrane potential	0.44692791	1.111024086
GO:0001541	ovarian follicle development	0.44680076	1.11104465
MP:0004272	abnormal basement membrane morphology	0.96936676	1.111097862
GO:0000779	condensed chromosome, centromeric region	0.96932786	1.111150421
GO:0045844	positive regulation of striated muscle tissue development	0.96932325	1.111230818
GO:0046519	sphingoid metabolic process	0.96920866	1.11126839
GO:0048636	positive regulation of muscle organ development	0.96932325	1.111319179
ENSG00000197818	SLC9A8 subnetwork	0.96918745	1.111328933
GO:0044089	positive regulation of cellular component biogenesis	0.96917391	1.111397439
MP:0001935	decreased litter size	0.44719932	1.111458158
GO:0072175	epithelial tube formation	0.96915993	1.111465956
ENSG00000111790	FGFR10P2 subnetwork	0.96911467	1.111490733
MP:0008547	abnormal neocortex morphology	0.96910344	1.11155529
GO:0042787	protein ubiquitination involved in ubiquitin-dependent prot	0.44727099	1.111557239
MP:0005264	glomerulosclerosis	0.44717623	1.111594813
ENSG00000068781	STON1-GTF2A1L subnetwork	0.96907689	1.111627814
GO:0032892	positive regulation of organic acid transport	0.9690009	1.111668523
MP:0002463	abnormal neutrophil physiology	0.96900032	1.111756983
GO:0030501	positive regulation of bone mineralization	0.96899619	1.111841477
ENSG00000013441	CLK1 subnetwork	0.96896197	1.111882212
GO:0090277	positive regulation of peptide hormone secretion	0.96892352	1.111914995
ENSG00000117245	KIF17 subnetwork	0.44756542	1.111957253
ENSG00000117408	IPO13 subnetwork	0.96888601	1.111967683

GO:0015116	sulfate transmembrane transporter activity	0.44753236	1.111984514
GO:0070403	NAD+ binding	0.44902328	1.11203222
GO:0021544	subpallium development	0.9688762	1.11204426
ENSG00000100749	VRK1 subnetwork	0.96882812	1.112081045
ENSG00000163806	SPDYA subnetwork	0.44912283	1.112114094
ENSG00000100038	TOP3B subnetwork	0.44897928	1.112126553
MP:0001096	abnormal glossopharyngeal ganglion morphology	0.96881613	1.112165605
GO:0060438	trachea development	0.44894395	1.112212523
ENSG00000105373	GLTSCR2 subnetwork	0.96879271	1.112242217
REACTOME_FANCONI_ANEMIA/	REACTOME_FANCONI_ANEMIA_PATHWAY	0.44890143	1.112315312
MP:0000745	tremors	0.96877353	1.112322822
GO:0004867	serine-type endopeptidase inhibitor activity	0.44841925	1.112369748
GO:0048486	parasympathetic nervous system development	0.9687571	1.112395477
GO:0032799	low-density lipoprotein receptor particle metabolic process	0.44804888	1.112396972
MP:0000926	absent floor plate	0.4483702	1.112397042
ENSG00000169018	FEM1B subnetwork	0.44812883	1.112403296
GO:0048285	organelle fission	0.96869385	1.112428321
MP:0003651	abnormal axon outgrowth	0.44928436	1.112455964
ENSG00000189308	LIN54 subnetwork	0.44826328	1.112468471
GO:0010631	epithelial cell migration	0.44888449	1.112468514
ENSG00000161542	PRPSAP1 subnetwork	0.44791356	1.112476864
ENSG00000132692	BCAN subnetwork	0.4498551	1.112487437
GO:0001841	neural tube formation	0.96868028	1.112489048
GO:0051437	positive regulation of ubiquitin-protein ligase activity involv	0.9685599	1.112514937
ENSG00000111859	NEDD9 subnetwork	0.4486364	1.112525202
GO:0030131	clathrin adaptor complex	0.44802011	1.112525236
ENSG00000164611	PTTG1 subnetwork	0.96865239	1.112529871
GO:0005811	lipid particle	0.44935052	1.112537739
MP:0003572	abnormal uterus development	0.44834876	1.112550437
ENSG00000063176	SPHK2 subnetwork	0.9685386	1.112571702
REACTOME_TRAF3:DEPENDEN	REACTOME_TRAF3:DEPENDENT_IRF_ACTIVATION_PATHW	0.44876691	1.112632286
MP:0005599	increased cardiac muscle contractility	0.96853076	1.112648395
GO:0090132	epithelium migration	0.44888449	1.112655358
ENSG00000151348	EXT2 subnetwork	0.44984417	1.112665438
GO:0006378	mRNA polyadenylation	0.44962411	1.112690696
ENSG00000034713	GABARAPL2 subnetwork	0.44863018	1.112703747
GO:0001502	cartilage condensation	0.96852886	1.112737052
MP:0009304	increased retroperitoneal fat pad weight	0.9684849	1.112781895
ENSG00000092199	HNRNPC subnetwork	0.4495539	1.112785044
ENSG00000113456	RAD1 subnetwork	0.44983749	1.112818365
GO:0031966	mitochondrial membrane	0.45046201	1.112832525
ENSG00000135821	GLUL subnetwork	0.96844308	1.112850653
ENSG00000165119	HNRNPK subnetwork	0.45038245	1.112868139
ENSG00000136986	DERL1 subnetwork	0.44952357	1.112896193
MP:0002065	abnormal fear/anxiety-related behavior	0.9684289	1.112927393
ENSG00000141867	BRD4 subnetwork	0.45028599	1.112964513
GO:0007219	Notch signaling pathway	0.45036144	1.112970711
GO:0006488	dolichol-linked oligosaccharide biosynthetic process	0.4501232	1.1129794
GO:0070536	protein K63-linked deubiquitination	0.44982937	1.112996481
MP:0006382	abnormal lung epithelium morphology	0.96842734	1.11300813
ENSG00000175203	DCTN2 subnetwork	0.9682659	1.113086981
ENSG00000125775	SDCBP2 subnetwork	0.96841976	1.113092866
ENSG00000167549	CORO6 subnetwork	0.45027754	1.113142474

GO:0060512	prostate gland morphogenesis	0.45021004	1.11316142
GO:0042307	positive regulation of protein import into nucleus	0.96824852	1.113167756
KEGG_PROXIMAL_TUBULE_BICARBONATE_RECLAMATION	KEGG_PROXIMAL_TUBULE_BICARBONATE_RECLAMATION	0.96841846	1.113181601
ENSG00000180340	FZD2 subnetwork	0.44982545	1.113183037
GO:0014706	striated muscle tissue development	0.96824136	1.113244558
GO:0004180	carboxypeptidase activity	0.96819629	1.113277512
ENSG00000138834	MAPK8IP3 subnetwork	0.4506924	1.113282034
KEGG_GLYCOSAMINOGLYCAN_BIOSYNTHESIS_HEPARAN_S	KEGG_GLYCOSAMINOGLYCAN_BIOSYNTHESIS_HEPARAN_S	0.96819414	1.11336231
ENSG00000066468	FGFR2 subnetwork	0.96817573	1.113435157
GO:0048679	regulation of axon regeneration	0.96816761	1.113504028
GO:0070570	regulation of neuron projection regeneration	0.96816761	1.113592853
ENSG00000136044	APPL2 subnetwork	0.96815989	1.113677702
REACTOME_N:GLYCAN_ANTENNAE_ELONGATION_IN_THE	REACTOME_N:GLYCAN_ANTENNAE_ELONGATION_IN_THE	0.45092477	1.113681218
ENSG00000068028	RASSF1 subnetwork	0.96805373	1.113739727
GO:0018345	protein palmitoylation	0.96815373	1.113762566
ENSG00000117152	RGS4 subnetwork	0.96804853	1.113828599
GO:0003018	vascular process in circulatory system	0.96802384	1.113873593
GO:0007519	skeletal muscle tissue development	0.96800348	1.113950519
GO:0006801	superoxide metabolic process	0.45115517	1.113977596
ENSG00000212664	ENSG00000212664 subnetwork	0.96798239	1.114023466
MP:0006304	abnormal seminiferous epithelium morphology	0.96795879	1.114088442
GO:0050654	chondroitin sulfate proteoglycan metabolic process	0.96790976	1.114133472
ENSG00000105085	MED26 subnetwork	0.45115288	1.114155518
ENSG00000138363	ATIC subnetwork	0.45137375	1.114209295
REACTOME_FORMATION_OF_THE_TERNARY_COMPLEX_AI	REACTOME_FORMATION_OF_THE_TERNARY_COMPLEX_AI	0.96787766	1.114210442
ENSG00000131462	TUBG1 subnetwork	0.96781519	1.114235529
ENSG00000173914	RBM4B subnetwork	0.96780262	1.11431252
REACTOME_FATTY_ACYL:COA_BIOSYNTHESIS	REACTOME_FATTY_ACYL:COA_BIOSYNTHESIS	0.45159338	1.114346591
GO:0032420	stereocilium	0.45148624	1.114365703
MP:0002543	brachyphalangia	0.96769422	1.114366715
ENSG00000176903	PNMA1 subnetwork	0.96777305	1.11436956
MP:0001724	abnormal extraembryonic endoderm formation	0.9676426	1.114403802
GO:0030658	transport vesicle membrane	0.4519182	1.114403808
ENSG00000165702	GFI1B subnetwork	0.45178716	1.114433679
GO:0051260	protein homooligomerization	0.45186213	1.114447971
ENSG00000206282	RGL2 subnetwork	0.96678088	1.114456435
GO:0009409	response to cold	0.96762111	1.11446885
GO:0018958	phenol-containing compound metabolic process	0.96709353	1.114496923
GO:0072132	mesenchyme morphogenesis	0.96756085	1.114509945
MP:0001183	overexpanded pulmonary alveoli	0.96704354	1.114538043
ENSG00000206210	ENSG00000206210 subnetwork	0.96678088	1.114545527
ENSG00000083642	PDS5B subnetwork	0.9672482	1.114583666
ENSG00000189285	ENSG00000189285 subnetwork	0.96740216	1.114585331
REACTOME_SYNTHESIS_AND_INTERCONVERSION_OF_NUC	REACTOME_SYNTHESIS_AND_INTERCONVERSION_OF_NUC	0.96754355	1.114586995
REACTOME_ACTIVATION_OF_THE_MRNA_UPON_BINDING	REACTOME_ACTIVATION_OF_THE_MRNA_UPON_BINDING	0.96731854	1.114590491
GO:0007507	heart development	0.96701101	1.114599153
MP:0004068	dilated dorsal aorta	0.96675042	1.114610649
MP:0001622	abnormal vasculogenesis	0.45177158	1.114611529
GO:0051146	striated muscle cell differentiation	0.96750367	1.114636095
MP:0008221	abnormal hippocampal commissure morphology	0.96671095	1.114659791
GO:0060081	membrane hyperpolarization	0.96670913	1.114748921
GO:0021879	forebrain neuron differentiation	0.96670099	1.114830068
GO:0032401	establishment of melanosome localization	0.96666045	1.114863244

GO:0000280	nuclear division	0.96663911	1.114912421
GO:0007067	mitosis	0.96663911	1.1150016
ENSG00000162552	WNT4 subnetwork	0.96663386	1.115082793
MP:0006144	increased systemic arterial systolic blood pressure	0.96640084	1.115159638
GO:0060606	tube closure	0.96663016	1.115172
GO:0003143	embryonic heart tube morphogenesis	0.96647421	1.115178429
GO:0045103	intermediate filament-based process	0.96659007	1.115225218
GO:0001843	neural tube closure	0.96638201	1.115236876
ENSG00000153140	CETN3 subnetwork	0.96589012	1.115240192
ENSG00000164162	ANAPC10 subnetwork	0.96622872	1.115255323
ENSG00000163637	PRICKLE2 subnetwork	0.96587323	1.115305469
GO:0044253	positive regulation of multicellular organismal metabolic pr	0.96636868	1.115322129
GO:0034284	response to monosaccharide stimulus	0.96622428	1.115332586
GO:0031513	nonmotile primary cilium	0.96615066	1.115373839
GO:0010827	regulation of glucose transport	0.96586423	1.115390775
ENSG00000065054	SLC9A3R2 subnetwork	0.96613983	1.115463133
GO:0045616	regulation of keratinocyte differentiation	0.96585238	1.115468087
ENSG00000138092	CENPO subnetwork	0.96580363	1.11550937
ENSG00000067900	ROCK1 subnetwork	0.45251409	1.115539977
GO:0034661	ncRNA catabolic process	0.96574106	1.115550661
GO:0019840	isoprenoid binding	0.96566669	1.115563922
GO:0016830	carbon-carbon lyase activity	0.45247852	1.115567613
ENSG00000125835	SNRPB subnetwork	0.45260387	1.115570761
GO:0060348	bone development	0.96558886	1.115577185
ENSG00000185130	HIST1H2BL subnetwork	0.45270901	1.115626564
MP:0000953	abnormal oligodendrocyte morphology	0.96557587	1.115654543
ENSG00000154839	SKA1 subnetwork	0.96552385	1.115691852
MP:0006355	abnormal sixth branchial arch artery morphology	0.45246817	1.115728836
GO:0046785	microtubule polymerization	0.96533722	1.115735695
GO:0071705	nitrogen compound transport	0.96549373	1.115765224
ENSG00000115507	OTX1 subnetwork	0.96533052	1.115817103
ENSG00000168135	KCNJ4 subnetwork	0.96549093	1.115850629
MP:0000857	abnormal cerebellar foliation	0.9653013	1.115882494
GO:0007567	parturition	0.96528674	1.115971944
GO:0035255	ionotropic glutamate receptor binding	0.9652276	1.115977233
ENSG00000206557	TRIM71 subnetwork	0.45293262	1.116007674
GO:2001022	positive regulation of response to DNA damage stimulus	0.96521164	1.116054678
MP:0008809	increased spleen iron level	0.45303661	1.116113428
ENSG00000001630	CYP51A1 subnetwork	0.45333608	1.116136023
REACTOME_ASSEMBLY_OF_HI'	REACTOME_ASSEMBLY_OF_HIV_VIRION	0.96521062	1.116144163
GO:0042552	myelination	0.96520948	1.116233662
GO:0006691	leukotriene metabolic process	0.45331078	1.116272091
MP:0011085	complete postnatal lethality	0.96520158	1.116307137
ENSG00000002822	MAD1L1 subnetwork	0.96518326	1.116380624
GO:0043449	cellular alkene metabolic process	0.45331078	1.116458229
MP:0004740	sensorineural hearing loss	0.45322977	1.116460974
MP:0009142	decreased prepulse inhibition	0.96518043	1.116470164
GO:0030203	glycosaminoglycan metabolic process	0.9651519	1.116519612
ENSG00000128731	HERC2 subnetwork	0.96511534	1.116557035
MP:0002127	abnormal cardiovascular system morphology	0.96506708	1.116598476
GO:0031032	actomyosin structure organization	0.9650503	1.116651958
GO:0007632	visual behavior	0.96502655	1.116717484
GO:0004620	phospholipase activity	0.96500768	1.11678302

MP:0005619	increased urine potassium level	0.45372808	1.116808333
MP:0009293	decreased inguinal fat pad weight	0.96499247	1.116864618
MP:0004936	impaired branching involved in ureteric bud morphogenesis	0.96498026	1.116930177
GO:0002275	myeloid cell activation involved in immune response	0.96451514	1.116931663
MP:0001073	abnormal glossopharyngeal nerve morphology	0.96478908	1.116954323
MP:0005146	decreased circulating VLDL cholesterol level	0.96448596	1.116985223
GO:0070371	ERK1 and ERK2 cascade	0.96497697	1.117003772
ENSG00000138396	ENSG00000138396 subnetwork	0.96475416	1.11701991
ENSG00000136002	ARHGEF4 subnetwork	0.9643881	1.117032129
MP:0004484	altered response of heart to induced stress	0.96446959	1.117050839
GO:0033500	carbohydrate homeostasis	0.453991	1.117052649
ENSG00000132612	VPS4A subnetwork	0.964976	1.117093434
GO:0002446	neutrophil mediated immunity	0.96474893	1.117101566
REACTOME_PHASE_II_CONJUGATION	REACTOME_PHASE_II_CONJUGATION	0.96438166	1.117117841
ENSG00000130222	GADD45G subnetwork	0.96472234	1.117167175
ENSG00000131069	ACSS2 subnetwork	0.96435827	1.117183483
GO:0043586	tongue development	0.96430112	1.117221017
GO:0042593	glucose homeostasis	0.453991	1.117238794
ENSG00000108010	GLRX3 subnetwork	0.45416132	1.117258038
REACTOME_GLUTAMATE_NEUROTRANSMITTER_RELEASE	REACTOME_GLUTAMATE_NEUROTRANSMITTER_RELEASE	0.96429871	1.117302748
MP:0001364	decreased anxiety-related response	0.96423535	1.117320209
MP:0000427	abnormal hair cycle	0.45447134	1.117357642
GO:0007585	respiratory gaseous exchange	0.96423435	1.117409997
GO:0032272	negative regulation of protein polymerization	0.45460999	1.117437989
GO:0032467	positive regulation of cytokinesis	0.96420664	1.117483726
MP:0008329	decreased somatotroph cell number	0.45446673	1.117535387
GO:0032963	collagen metabolic process	0.96407331	1.117542802
ENSG00000100985	MMP9 subnetwork	0.45471371	1.117551598
ENSG00000074201	CLNS1A subnetwork	0.45477346	1.117556998
MP:0001429	dehydration	0.96419116	1.117573541
MP:0002925	abnormal cardiovascular development	0.96407106	1.117628617
GO:0071825	protein-lipid complex subunit organization	0.96397781	1.117642093
ENSG00000173567	GPR113 subnetwork	0.45496433	1.117675927
ENSG00000163909	HEYL subnetwork	0.45445738	1.117696536
GO:0071827	plasma lipoprotein particle organization	0.96397781	1.11773195
MP:0000937	abnormal motor neuron morphology	0.96395784	1.117777599
GO:0008395	steroid hydroxylase activity	0.45494628	1.117787022
MP:0004154	renal tubular necrosis	0.96384965	1.11783273
ENSG00000100325	ASCC2 subnetwork	0.96370466	1.117859728
GO:0000146	microfilament motor activity	0.96395311	1.117867482
MP:0003140	dilated heart atrium	0.96366588	1.117897362
GO:0010518	positive regulation of phospholipase activity	0.96382573	1.117902525
ENSG00000196628	TCF4 subnetwork	0.96353286	1.117924377
GO:0006282	regulation of DNA repair	0.96362473	1.117930979
GO:0006909	phagocytosis	0.96346659	1.117937887
KEGG_SNARE_INTERACTIONS_IN_VESICULAR_TRANSPORT	KEGG_SNARE_INTERACTIONS_IN_VESICULAR_TRANSPORT	0.96343686	1.118003701
MP:0001784	abnormal fluid regulation	0.96342084	1.118065503
ENSG00000104388	RAB2A subnetwork	0.96340459	1.118127314
GO:0090092	regulation of transmembrane receptor protein serine/threonine kinase activity	0.96340223	1.118217304
GO:0055006	cardiac cell development	0.96334834	1.118238892
ENSG00000170017	ALCAM subnetwork	0.45603356	1.11829653
MP:0004355	short radius	0.96326655	1.118302206
GO:0055013	cardiac muscle cell development	0.96334834	1.118328906

REACTOME_TRANSLATION_INITIATION_COMPLEX_FORMA	0.9632175	1.118351985
REACTOME_PI:3K_CASCADE	0.45599885	1.118399203
GO:0009435	NAD biosynthetic process	0.96320796
GO:0019843	rRNA binding	0.45554709
GO:0046328	regulation of JNK cascade	0.45671126
KEGG_Glutathione_Metabolism	0.96319059	1.118511957
ENSG00000184886	PIGW subnetwork	0.45599851
REACTOME_Glucagon_Signaling	0.96318614	1.118598003
GO:0021695	cerebellar cortex development	0.45566501
GO:0070304	positive regulation of stress-activated protein kinase signaling	0.45539693
REACTOME_ACTIVATION_OF_DNA_FRAGMENTATION_FACTOR	0.4558073	1.118627451
ENSG00000144895	EIF2A subnetwork	0.45552619
ENSG00000204227	RING1 subnetwork	0.45670604
GO:0031672	A band	0.9631659
MP:0006090	abnormal utricle morphology	0.9630635
KEGG_Glycosphingolipid_Biosynthesis	0.96313872	1.118721811
GO:0048020	CCR chemokine receptor binding	0.4559792
ENSG00000100911	PSME2 subnetwork	0.45549942
ENSG00000124171	PARD6B subnetwork	0.96305737
REACTOME_Apoptosis_Induced_DNA_Fragmentation	0.4558073	1.118813362
ENSG00000206287	RING1 subnetwork	0.45670604
REACTOME_Synthesis_Secretion_and_Inactivation_of	0.96300481	1.118843148
GO:0008037	cell recognition	0.96296009
ENSG00000147869	CER1 subnetwork	0.45693475
GO:0032970	regulation of actin filament-based process	0.45597832
GO:0016337	cell-cell adhesion	0.96294697
GO:0015851	nucleobase transport	0.96293378
ENSG00000206215	ENSG00000206215 subnetwork	0.45670604
GO:0051241	negative regulation of multicellular organismal process	0.4563813
GO:0010660	regulation of muscle cell apoptotic process	0.96290812
ENSG00000080802	CNOT4 subnetwork	0.45666664
ENSG00000120057	SFRP5 subnetwork	0.96287437
ENSG00000106483	SFRP4 subnetwork	0.96287437
ENSG00000077454	LRCH4 subnetwork	0.45664687
ENSG00000104332	SFRP1 subnetwork	0.96287437
ENSG00000117758	STX12 subnetwork	0.45655424
KEGG_Calcium_Signaling_Pathway	0.96284962	1.119355099
MP:0000036	absent semicircular canals	0.96277875
ENSG00000205307	SAP25 subnetwork	0.45664687
ENSG00000135604	STX11 subnetwork	0.96273886
GO:0071845	cellular component disassembly at cellular level	0.45747289
REACTOME_G:Protein_BetaGamma_Signaling	0.96272398	1.119500887
ENSG00000126067	PSMB2 subnetwork	0.45725664
ENSG00000178035	IMPDH2 subnetwork	0.4574438
REACTOME_Serotonin_Receptors	0.96272001	1.119591162
GO:0071299	cellular response to vitamin A	0.96270031
MP:0003892	abnormal gastric gland morphology	0.45906091
GO:0071300	cellular response to retinoic acid	0.96270031
GO:0006505	GPI anchor metabolic process	0.45743812
MP:0003157	impaired muscle relaxation	0.45915625
KEGG_Valine_Leucine_and_Isoleucine_Biosynthesis	0.4586825	1.119826446
GO:0048639	positive regulation of developmental growth	0.96268871
GO:0021527	spinal cord association neuron differentiation	0.96268592

MP:0002192	hydrops fetalis	0.45904875	1.119942197
ENSG00000137575	SDCBP subnetwork	0.96255755	1.119975797
ENSG00000104722	NEFM subnetwork	0.96265162	1.119990319
ENSG00000020633	RUNX3 subnetwork	0.45776247	1.119998344
ENSG00000080839	RBL1 subnetwork	0.45867252	1.120003306
GO:0030133	transport vesicle	0.45860986	1.120039683
ENSG00000155959	VBP1 subnetwork	0.45890299	1.120051223
ENSG00000157227	MMP14 subnetwork	0.45939597	1.120052814
MP:0003998	decreased thermal nociceptive threshold	0.96254187	1.120058093
ENSG00000066777	ARFGEF1 subnetwork	0.45935157	1.120072631
MP:0002908	delayed wound healing	0.45884689	1.120087589
GO:0004869	cysteine-type endopeptidase inhibitor activity	0.45904273	1.120102412
GO:0015020	glucuronosyltransferase activity	0.96250685	1.120104091
ENSG00000000419	DPM1 subnetwork	0.45899905	1.120147035
GO:0070888	E-box binding	0.96248309	1.120150097
GO:0032321	positive regulation of Rho GTPase activity	0.45962161	1.12017486
ENSG00000091106	NLRC4 subnetwork	0.96238006	1.120181598
REACTOME_SWITCHING_OF_C	REACTOME_SWITCHING_OF_ORIGINS_TO_A_POST:REPLIC/	0.45859851	1.120200099
GO:0001678	cellular glucose homeostasis	0.96247718	1.120236462
ENSG00000005007	UPF1 subnetwork	0.45956096	1.120252434
MP:0001693	failure of primitive streak formation	0.96237502	1.12026798
ENSG00000125870	SNRPB2 subnetwork	0.45844973	1.120281224
ENSG00000138442	WDR12 subnetwork	0.4595221	1.120305281
GO:0000777	condensed chromosome kinetochore	0.96236803	1.120350339
GO:0032432	actin filament bundle	0.45841652	1.120350761
REACTOME_ORC1_REMOVAL_	REACTOME_ORC1_REMOVAL_FROM_CHROMATIN	0.45859851	1.120385379
ENSG00000137843	PAK6 subnetwork	0.45978979	1.120410688
GO:0032291	axon ensheathment in central nervous system	0.96234744	1.120416566
GO:0046890	regulation of lipid biosynthetic process	0.45840004	1.120494787
GO:0022010	central nervous system myelination	0.96234744	1.120507024
GO:0019897	extrinsic to plasma membrane	0.96227608	1.120516754
REACTOME_UNWINDING_OF_	REACTOME_UNWINDING_OF_DNA	0.45808913	1.12054148
ENSG00000104969	SGTA subnetwork	0.96223358	1.12056686
MP:0004157	interrupted aortic arch	0.96211612	1.120650945
ENSG00000164056	SPRY1 subnetwork	0.9622253	1.120653315
GO:0046677	response to antibiotic	0.45836921	1.120663688
GO:0008366	axon ensheathment	0.96209517	1.120709151
ENSG00000161533	ACOX1 subnetwork	0.45833436	1.120774706
GO:0007272	ensheathment of neurons	0.96209517	1.120799677
GO:0005231	excitatory extracellular ligand-gated ion channel activity	0.96207761	1.120874061
GO:0030258	lipid modification	0.45830129	1.120885762
GO:0043601	nuclear replisome	0.46102406	1.120947836
GO:0051963	regulation of synapse assembly	0.96206832	1.120952496
GO:0030132	clathrin coat of coated pit	0.96164927	1.120973087
GO:0006221	pyrimidine nucleotide biosynthetic process	0.96192775	1.120984163
MP:0003237	abnormal lens epithelium morphology	0.96203573	1.121014785
GO:0060442	branching involved in prostate gland morphogenesis	0.96162009	1.121043485
ENSG00000114450	GNB4 subnetwork	0.961791	1.121048166
ENSG00000174442	ZWILCH subnetwork	0.96190775	1.121066667
ENSG00000177951	BET1L subnetwork	0.96094467	1.121100955
REACTOME_PERK_REGULATED	REACTOME_PERK_REGULATED_GENE_EXPRESSION	0.96160256	1.121109854
GO:0030894	replisome	0.46102406	1.121132324
GO:0072506	trivalent inorganic anion homeostasis	0.96146676	1.121133479

MP:0005403	abnormal nerve conduction	0.96156808	1.121135812
REACTOME_FGFR2C_LIGAND_BINDING_AND_ACTIVATION	REACTOME_FGFR2C_LIGAND_BINDING_AND_ACTIVATION	0.96119447	1.121172665
GO:0030166	proteoglycan biosynthetic process	0.96133756	1.121173284
GO:0045778	positive regulation of ossification	0.96093353	1.121179516
GO:0006376	mRNA splice site selection	0.96073416	1.121200842
ENSG00000186871	ERCC6L subnetwork	0.96109325	1.121212489
GO:0055062	phosphate ion homeostasis	0.96146676	1.121224127
ENSG00000110107	PRPF19 subnetwork	0.46092586	1.121229832
MP:0000474	abnormal foregut morphology	0.46070387	1.121240323
ENSG00000168807	SNTB2 subnetwork	0.96118097	1.121251213
GO:0015269	calcium-activated potassium channel activity	0.96086177	1.121255765
ENSG00000136810	TXN subnetwork	0.96133451	1.121255863
ENSG00000122679	RAMP3 subnetwork	0.96090979	1.121258091
GO:0051294	establishment of spindle orientation	0.96050131	1.121272462
GO:0015914	phospholipid transport	0.96064116	1.121273066
KEGG_OLFACTORY_TRANSDUCTION	KEGG_OLFACTORY_TRANSDUCTION	0.96072523	1.121279437
MP:0002016	ovary cysts	0.46101942	1.121283951
MP:0004814	reduced linear vestibular evoked potential	0.46087278	1.12129096
MP:0001513	limb grasping	0.96061401	1.121327398
GO:0000786	nucleosome	0.46024385	1.121355541
GO:0000132	establishment of mitotic spindle orientation	0.96050131	1.121363232
GO:0060674	placenta blood vessel development	0.96044213	1.121369009
MP:0002163	abnormal gland morphology	0.46030812	1.121401484
GO:0030282	bone mineralization	0.96040463	1.121419318
GO:0030307	positive regulation of cell growth	0.46070369	1.121425041
GO:0034660	ncRNA metabolic process	0.46131156	1.121446199
GO:0071577	zinc ion transmembrane transport	0.46086815	1.121475626
MP:0009172	small pancreatic islets	0.96039541	1.121497976
ENSG00000196072	BLOC1S2 subnetwork	0.46067529	1.121560389
ENSG00000120088	CRHR1 subnetwork	0.96038612	1.121576646
GO:0060538	skeletal muscle organ development	0.96037847	1.121663427
ENSG00000149182	ARFGAP2 subnetwork	0.46056162	1.121674633
MP:0004252	abnormal direction of heart looping	0.46064382	1.121687541
GO:0007517	muscle organ development	0.96034944	1.121717826
GO:0010181	FMN binding	0.46050757	1.121727662
REACTOME_NCAM1_INTERACTIONS	REACTOME_NCAM1_INTERACTIONS	0.96033877	1.121792483
GO:0048813	dendrite morphogenesis	0.96028553	1.12182665
GO:0033198	response to ATP	0.9602267	1.12184057
ENSG00000155438	MKI67IP subnetwork	0.46159099	1.121883224
ENSG00000114745	GORASP1 subnetwork	0.96010846	1.121884622
GO:0008021	synaptic vesicle	0.96004149	1.121914756
KEGG_PORPHYRIN_AND_CHLOROPHYLL_METABOLISM	KEGG_PORPHYRIN_AND_CHLOROPHYLL_METABOLISM	0.96020691	1.121923357
ENSG00000120251	GRIA2 subnetwork	0.95987311	1.121930464
ENSG00000102901	CENPT subnetwork	0.9598345	1.121964662
GO:0030850	prostate gland development	0.46155337	1.121969074
GO:0035148	tube formation	0.95976942	1.121970495
MP:0005533	increased body temperature	0.9600402	1.122005673
ENSG00000173230	GOLGB1 subnetwork	0.95972433	1.122029021
GO:0055102	lipase inhibitor activity	0.95970092	1.122091609
MP:0002825	abnormal notochord morphology	0.95960992	1.122097454
ENSG00000166046	TCP11L2 subnetwork	0.4618639	1.122114436
GO:0045111	intermediate filament cytoskeleton	0.95960959	1.122188438
ENSG00000134313	KIDINS220 subnetwork	0.95958978	1.122259163

ENSG00000151725	MLF1IP subnetwork	0.95954346	1.122277188
GO:0008483	transaminase activity	0.46185863	1.122282519
GO:0021782	glial cell development	0.95951525	1.122315491
MP:0011087	complete neonatal lethality	0.9593381	1.122327223
GO:0060675	ureteric bud morphogenesis	0.95921532	1.122387636
ENSG00000134363	FST subnetwork	0.9595035	1.122402466
ENSG00000171723	GPHN subnetwork	0.95933249	1.122418269
ENSG00000089159	PXN subnetwork	0.46205704	1.122423146
MP:0004028	chromosome breakage	0.46221187	1.122440427
KEGG_MISMATCH_REPAIR	KEGG_MISMATCH_REPAIR	0.46229058	1.122444956
ENSG00000196226	HIST1H2BB subnetwork	0.46215294	1.122468771
GO:0000097	sulfur amino acid biosynthetic process	0.95921312	1.122474645
MP:0003078	aphakia	0.95920838	1.122565725
MP:0005278	abnormal cholesterol homeostasis	0.95920604	1.122656821
GO:0019083	viral transcription	0.46431614	1.122696776
GO:0030228	lipoprotein particle receptor activity	0.95903799	1.122706981
ENSG00000136152	COG3 subnetwork	0.46438311	1.122742147
GO:0051057	positive regulation of small GTPase mediated signal transduction	0.95920499	1.122747931
ENSG00000101189	C20orf20 subnetwork	0.95901432	1.122773764
GO:0071941	nitrogen cycle metabolic process	0.95919128	1.122818765
GO:0015939	pantothenate metabolic process	0.95898753	1.122840559
MP:0004148	increased compact bone thickness	0.46275901	1.122873563
GO:0019080	viral genome expression	0.46431614	1.122880524
MP:0001126	abnormal ovary morphology	0.46257139	1.122881078
MP:0001415	increased exploration in new environment	0.95890293	1.122909224
ENSG00000131828	PDHA1 subnetwork	0.9589723	1.122923602
GO:0033043	regulation of organelle organization	0.4640001	1.122923833
ENSG00000104637	ENSG00000104637 subnetwork	0.4642724	1.122933377
MP:0001326	retinal degeneration	0.9588402	1.122947625
GO:0048663	neuron fate commitment	0.95876535	1.122949488
KEGG_AMINO_SUGAR_AND_NUCLEOTIDE_SUGAR_METABOLISM	KEGG_AMINO_SUGAR_AND_NUCLEOTIDE_SUGAR_METABOLISM	0.46252092	1.12295055
GO:0007286	spermatid development	0.95875097	1.123004142
ENSG00000186908	ZDHHC17 subnetwork	0.9586872	1.123026316
ENSG00000138443	ABI2 subnetwork	0.46275007	1.123049762
MP:0004221	abnormal iridocorneal angle	0.46419741	1.123063697
ENSG00000143499	SMYD2 subnetwork	0.46397501	1.123075033
MP:0001560	abnormal circulating insulin level	0.4642696	1.123100851
GO:0072224	metanephric glomerulus development	0.9586699	1.123109414
ENSG00000132703	APCS subnetwork	0.46316729	1.123190547
ENSG00000013375	PGM3 subnetwork	0.95866028	1.123196588
ENSG00000101161	PRPF6 subnetwork	0.463371	1.123215751
ENSG00000075426	FOSL2 subnetwork	0.46327313	1.12321956
GO:0009651	response to salt stress	0.46396436	1.123242668
ENSG00000100994	PYGB subnetwork	0.4641955	1.123247625
MP:0008148	abnormal rib-sternum attachment	0.95865454	1.123287838
GO:0051962	positive regulation of nervous system development	0.95856953	1.123301917
ENSG00000138768	USO1 subnetwork	0.4630782	1.123313085
ENSG00000163918	RFC4 subnetwork	0.46315663	1.123317466
GO:0016813	hydrolase activity, acting on carbon-nitrogen (but not peptide) bonds	0.46465274	1.123319156
REACTOME_REV:MEDIATED_NUCLEAR_EXPORT_OF_HIV1_PROTEIN	REACTOME_REV:MEDIATED_NUCLEAR_EXPORT_OF_HIV1_PROTEIN	0.46394776	1.123344805
GO:0006349	regulation of gene expression by genetic imprinting	0.46367381	1.123368317
GO:0040020	regulation of meiosis	0.46361962	1.12337215
MP:0003141	cardiac fibrosis	0.4637645	1.123380882

GO:0051965	positive regulation of synapse assembly	0.95856953	1.123393191
GO:0010950	positive regulation of endopeptidase activity	0.46354442	1.123416995
ENSG00000136160	EDNRB subnetwork	0.46391749	1.123446976
ENSG00000105281	SLC1A5 subnetwork	0.46387289	1.123467213
GO:0030947	regulation of vascular endothelial growth factor receptor signaling pathway	0.95855031	1.123476353
ENSG00000189367	KIAA0408 subnetwork	0.46491062	1.123499591
GO:0000977	RNA polymerase II regulatory region sequence-specific DNA binding	0.46480026	1.123503435
GO:0050872	white fat cell differentiation	0.95851983	1.123539212
ENSG00000170876	TMEM43 subnetwork	0.9585152	1.123630527
ENSG00000167244	IGF2 subnetwork	0.9584808	1.12368528
GO:0015980	energy derivation by oxidation of organic compounds	0.95847331	1.123768493
GO:0048806	genitalia development	0.95833983	1.123784553
ENSG00000196839	ADA subnetwork	0.95846826	1.123855784
ENSG00000171533	MAP6 subnetwork	0.95833725	1.123875925
REACTOME_DESTABILIZATION_OF_MRNA_BY_KSRP	REACTOME_DESTABILIZATION_OF_MRNA_BY_KSRP	0.95774141	1.123919941
MP:0003896	prolonged PR interval	0.95831851	1.123938852
GO:0044003	modification by symbiont of host morphology or physiology	0.95796715	1.123942574
ENSG00000184845	DRD1 subnetwork	0.95768882	1.123946298
MP:0003161	absent lateral semicircular canal	0.9575665	1.123962402
ENSG00000138778	CENPE subnetwork	0.95784625	1.12396274
GO:0042136	neurotransmitter biosynthetic process	0.95814729	1.123967144
GO:0030308	negative regulation of cell growth	0.95826649	1.123969261
GO:0006022	aminoglycan metabolic process	0.95808587	1.12397316
ENSG00000167863	ATP5H subnetwork	0.95794547	1.124001464
MP:0000297	abnormal atrioventricular cushion morphology	0.9576737	1.124025551
ENSG00000101365	IDH3B subnetwork	0.95755853	1.124053878
GO:0010975	regulation of neuron projection development	0.95754566	1.124137229
GO:0045177	apical part of cell	0.95754178	1.124228734
GO:0021522	spinal cord motor neuron differentiation	0.95754136	1.124320254
ENSG00000105329	TGFB1 subnetwork	0.46626175	1.124322781
ENSG00000137561	TTPA subnetwork	0.46617112	1.124343072
ENSG00000198899	MT-ATP6 subnetwork	0.46593931	1.12439582
REACTOME_PLG_BETA_MEDIATED_EVENTS	REACTOME_PLG_BETA_MEDIATED_EVENTS	0.46610737	1.124404179
GO:0043044	ATP-dependent chromatin remodeling	0.46587974	1.12440797
GO:0015844	monoamine transport	0.95753518	1.124411789
GO:0072088	nephron epithelium morphogenesis	0.95748877	1.124466699
ENSG00000122786	CALD1 subnetwork	0.95740537	1.124468691
GO:0019199	transmembrane receptor protein kinase activity	0.46606166	1.124473469
MP:0004261	abnormal embryonic neuroepithelium morphology	0.46908964	1.124505191
ENSG00000120875	DUSP4 subnetwork	0.95736652	1.124539902
ENSG00000108094	CUL2 subnetwork	0.4669309	1.124551679
GO:0034470	ncRNA processing	0.46586029	1.124567135
ENSG00000110721	CHKA subnetwork	0.46687578	1.124612751
ENSG00000206489	PPP1R10 subnetwork	0.47208339	1.124621212
ENSG00000093217	XYLB subnetwork	0.9573614	1.124623341
GO:0004521	endoribonuclease activity	0.46682025	1.124641226
ENSG00000102900	NUP93 subnetwork	0.46907196	1.124663313
MP:0000005	increased brown adipose tissue amount	0.46672083	1.124669711
ENSG00000164815	ORC5 subnetwork	0.95735408	1.124706793
GO:0008047	enzyme activator activity	0.46578946	1.124722222
ENSG00000118785	SPP1 subnetwork	0.46584743	1.124726352
GO:0006278	RNA-dependent DNA replication	0.46542863	1.124746566
ENSG00000023191	RNH1 subnetwork	0.9573173	1.124765822

ENSG00000204569	PPP1R10 subnetwork	0.47208339	1.124802515
GO:0031023	microtubule organizing center organization	0.46554907	1.124807912
ENSG00000163468	CCT3 subnetwork	0.46671221	1.124812398
ENSG00000196331	HIST1H2BO subnetwork	0.46906406	1.124821487
GO:0002548	monocyte chemotaxis	0.95730177	1.124849299
GO:0043496	regulation of protein homodimerization activity	0.46577812	1.124881517
MP:0005587	abnormal Meckel's cartilage morphology	0.95728359	1.124916497
ENSG00000125743	SNRPD2 subnetwork	0.46956951	1.124963527
MP:0004787	abnormal dorsal aorta morphology	0.46669201	1.124979605
ENSG00000206407	ENSG00000206407 subnetwork	0.47208339	1.124983876
GO:0009225	nucleotide-sugar metabolic process	0.46573982	1.124991827
GO:0010921	regulation of phosphatase activity	0.46905607	1.124995942
MP:0002582	disorganized extraembryonic tissue	0.95727716	1.125
MP:0011088	partial neonatal lethality	0.95724347	1.125042777
GO:0060968	regulation of gene silencing	0.46953467	1.125072957
ENSG00000197429	IPP subnetwork	0.95720273	1.125101858
ENSG00000033122	LRR7 subnetwork	0.46745336	1.125138482
ENSG00000140829	DHX38 subnetwork	0.47206362	1.125149169
ENSG00000101966	XIAP subnetwork	0.46904571	1.125154221
ENSG00000000938	FGR subnetwork	0.46721811	1.125158924
GO:0001727	lipid kinase activity	0.47246455	1.125177248
ENSG00000173349	SFT2D3 subnetwork	0.95720001	1.125193546
ENSG00000115128	ENSG00000115128 subnetwork	0.46739247	1.125207756
ENSG00000117748	RPA2 subnetwork	0.4695167	1.125214853
ENSG00000188488	SERPINA5 subnetwork	0.95712534	1.125220049
ENSG00000112559	MDFI subnetwork	0.47394722	1.125220884
ENSG00000070808	CAMK2A subnetwork	0.95690602	1.12523235
MP:0002132	abnormal respiratory system morphology	0.46733702	1.125252608
GO:0061025	membrane fusion	0.95707207	1.125258782
ENSG00000104529	EEF1D subnetwork	0.46948083	1.125259488
MP:0001258	decreased body length	0.95696546	1.1252629
ENSG00000134070	IRAK2 subnetwork	0.46899805	1.12527196
GO:0030880	RNA polymerase complex	0.46894552	1.125284183
ENSG00000100284	TOM1 subnetwork	0.95681041	1.125285388
REACTOME_P38MAPK_EVENTS	REACTOME_P38MAPK_EVENTS	0.47389367	1.125297237
ENSG00000136982	DSCC1 subnetwork	0.47204511	1.125306452
GO:0018198	peptidyl-cysteine modification	0.9568971	1.125307786
GO:0060038	cardiac muscle cell proliferation	0.95702674	1.1253179
GO:0090130	tissue migration	0.47244223	1.12532635
GO:0001159	core promoter proximal region DNA binding	0.95676631	1.125328223
REACTOME_PPARG_ACTIVATES_GENE_EXPRESSION	REACTOME_PPARG_ACTIVATES_GENE_EXPRESSION	0.47199316	1.125342797
GO:0038024	cargo receptor activity	0.46831798	1.125361847
GO:0033044	regulation of chromosome organization	0.46981523	1.125364668
ENSG00000134086	VHL subnetwork	0.4676124	1.125386871
ENSG00000131242	RAB11FIP4 subnetwork	0.95675834	1.125419997
GO:0071453	cellular response to oxygen levels	0.46947419	1.125433901
ENSG00000141738	GRB7 subnetwork	0.47388678	1.125437892
GO:0042641	actomyosin	0.47383212	1.125466088
ENSG00000136286	MYO1G subnetwork	0.46894097	1.125466948
ENSG00000113575	PPP2CA subnetwork	0.47265851	1.125471242
ENSG00000148943	LIN7C subnetwork	0.95672822	1.125479162
ENSG00000078674	PCM1 subnetwork	0.4718954	1.125480071
GO:0032393	MHC class I receptor activity	0.4729135	1.125483092

GO:0051865	protein autoubiquitination	0.47198331	1.125492094
ENSG00000167306	MYO5B subnetwork	0.47315805	1.12549493
GO:0016624	oxidoreductase activity, acting on the aldehyde or oxo grou	0.46867135	1.125507882
MP:0009358	environmentally induced seizures	0.95644385	1.125516032
ENSG00000118194	TNNT2 subnetwork	0.46830868	1.125520494
MP:0005039	hypoxia	0.47276709	1.125523518
ENSG00000196353	CPNE4 subnetwork	0.47364626	1.125526612
ENSG00000149968	MMP3 subnetwork	0.47286767	1.12552746
ENSG00000089199	CHGB subnetwork	0.46890324	1.125544185
GO:0015807	L-amino acid transport	0.95669941	1.125546493
ENSG00000203852	HIST2H3A subnetwork	0.46882793	1.125548335
ENSG00000116350	SRSF4 subnetwork	0.47184032	1.125548741
REACTOME_VITAMIN_B5_PAN	REACTOME_VITAMIN_B5_PANTOTHENATE_METABOLISM	0.95662064	1.125560812
ENSG00000124074	C16orf48 subnetwork	0.47328917	1.125579337
ENSG00000164032	H2AFZ subnetwork	0.47379474	1.125590741
ENSG00000181817	LSM10 subnetwork	0.95642889	1.125591547
ENSG00000106992	AK1 subnetwork	0.47305156	1.125591692
GO:0035196	production of miRNAs involved in gene silencing by miRNA	0.9565722	1.125599608
ENSG00000118705	RPN2 subnetwork	0.47360265	1.12561917
GO:0097006	regulation of plasma lipoprotein particle levels	0.95636857	1.125626275
ENSG00000165672	PRDX3 subnetwork	0.46828301	1.125630389
ENSG00000167965	MLST8 subnetwork	0.46865971	1.125642068
GO:0006368	transcription elongation from RNA polymerase II promoter	0.46880483	1.125658109
ENSG00000131982	ENSG00000131982 subnetwork	0.47314884	1.125668062
ENSG00000186895	FGF3 subnetwork	0.95630792	1.125669169
MP:0001704	abnormal dorsal-ventral axis patterning	0.47375731	1.12568328
ENSG00000122180	MYOG subnetwork	0.46861114	1.125695009
ENSG00000074054	CLASP1 subnetwork	0.4685182	1.125707317
MP:0000753	paralysis	0.95581325	1.125720585
ENSG00000113569	NUP155 subnetwork	0.4718393	1.125722357
ENSG00000023287	RB1CC1 subnetwork	0.46812958	1.125732422
ENSG00000145912	NHP2 subnetwork	0.473589	1.125743928
GO:0042573	retinoic acid metabolic process	0.95629938	1.125752877
MP:0006054	spinal hemorrhage	0.46807403	1.125752889
GO:0008286	insulin receptor signaling pathway	0.95593283	1.12576339
ENSG00000049759	NEDD4L subnetwork	0.46819601	1.125777055
ENSG00000118898	PPL subnetwork	0.46786081	1.125781759
GO:0051493	regulation of cytoskeleton organization	0.47350697	1.125788288
MP:0004615	cervical vertebral transformation	0.46827732	1.125797267
GO:0048641	regulation of skeletal muscle tissue development	0.9558058	1.125804344
ENSG00000109501	WFS1 subnetwork	0.95574451	1.125810535
ENSG00000128266	GNAZ subnetwork	0.95605615	1.125814352
MP:0005226	abnormal vertebral arch development	0.95628263	1.125824355
GO:0005072	transforming growth factor beta receptor, cytoplasmic mec	0.4734472	1.125824618
GO:0023019	signal transduction involved in regulation of gene expressio	0.95623481	1.125842788
GO:0005942	phosphatidylinositol 3-kinase complex	0.47181183	1.125847594
GO:0006900	membrane budding	0.95574034	1.125898399
GO:0043516	regulation of DNA damage response, signal transduction by	0.9562266	1.125922449
MP:0003036	vertebral transformation	0.46806603	1.125928036
ENSG00000173867	ENSG00000173867 subnetwork	0.47430379	1.12595567
ENSG00000135404	CD63 subnetwork	0.46799285	1.125964827
GO:0050839	cell adhesion molecule binding	0.95572139	1.125982194
REACTOME_REGULATION_OF_	REACTOME_REGULATION_OF_AMPK_ACTIVITY_VIA_LKB1	0.47178717	1.12598902

ENSG00000188191	PRKAR1B subnetwork	0.47172915	1.125993217
GO:0015149	hexose transmembrane transporter activity	0.47169207	1.126037797
GO:0005859	muscle myosin complex	0.95571768	1.126070087
REACTOME_SEMAPHORIN_INT	REACTOME_SEMAPHORIN_INTERACTIONS	0.47063344	1.126125324
GO:0006656	phosphatidylcholine biosynthetic process	0.47041187	1.126129921
GO:0006672	ceramide metabolic process	0.95570449	1.126149824
GO:0031267	small GTPase binding	0.47168961	1.126203554
ENSG00000121058	COIL subnetwork	0.47445366	1.126208447
ENSG00000131475	VPS25 subnetwork	0.95570371	1.12624183
GO:0001944	vasculature development	0.95555991	1.126258376
GO:0043467	regulation of generation of precursor metabolites and ener	0.47097599	1.126262136
GO:0050850	positive regulation of calcium-mediated signaling	0.47039354	1.126279974
GO:0004860	protein kinase inhibitor activity	0.47061484	1.126283401
MP:0004773	abnormal bile composition	0.47085241	1.126294917
ENSG00000143398	PIP5K1A subnetwork	0.47080689	1.126323458
ENSG00000180210	F2 subnetwork	0.95569071	1.12632568
GO:0031674	I band	0.95553913	1.126325897
REACTOME_LIPID_DIGESTION_	REACTOME_LIPID_DIGESTION_MOBILIZATION_AND_TRAN	0.47106893	1.126354959
ENSG00000065150	IPO5 subnetwork	0.47167806	1.126369365
MP:0002893	ketoaciduria	0.47033483	1.126381462
GO:0019212	phosphatase inhibitor activity	0.95549411	1.126385257
GO:0034695	response to prostaglandin E stimulus	0.47094992	1.126395857
MP:0001719	absent vitelline blood vessels	0.47059619	1.126425332
MP:0005171	absent coat pigmentation	0.95548671	1.126477319
ENSG00000152455	SUV39H2 subnetwork	0.47166228	1.126510989
MP:0008006	increased stomach pH	0.47123258	1.126528632
ENSG00000129255	MPDU1 subnetwork	0.47472085	1.126537165
ENSG00000100083	GGA1 subnetwork	0.47467088	1.126549454
GO:0014002	astrocyte development	0.95547032	1.12656531
GO:0021680	cerebellar Purkinje cell layer development	0.47163289	1.126620333
GO:0035326	enhancer binding	0.47158709	1.126624636
MP:0001780	decreased brown adipose tissue amount	0.47137373	1.126629468
MP:0001570	abnormal circulating enzyme level	0.4714412	1.126641332
GO:0030517	negative regulation of axon extension	0.9554534	1.126649227
MP:0010379	decreased respiratory quotient	0.47486499	1.126693419
ENSG00000136270	TBRG4 subnetwork	0.95544799	1.126737247
MP:0002135	abnormal kidney morphology	0.95539643	1.126772136
ENSG00000164086	DUSP7 subnetwork	0.4715807	1.126798707
GO:0090192	regulation of glomerulus development	0.95538302	1.126843827
GO:0043218	compact myelin	0.95534076	1.126903263
MP:0003729	abnormal photoreceptor outer segment morphology	0.95510919	1.126926223
GO:0051923	sulfation	0.95531734	1.126970886
GO:0005791	rough endoplasmic reticulum	0.95510318	1.127006135
GO:0004993	serotonin receptor activity	0.95530345	1.127050789
MP:0003698	abnormal male reproductive system physiology	0.95506273	1.127053338
MP:0000623	decreased salivation	0.95502372	1.12711282
REACTOME_G_BETAGAMMA_	REACTOME_G_BETAGAMMA_SIGNALING_THROUGH_PI3	0.95498266	1.127160039
ENSG00000105088	OLFM2 subnetwork	0.95497758	1.127252271
GO:0051899	membrane depolarization	0.95492241	1.127287234
GO:0009746	response to hexose stimulus	0.95490377	1.127346755
ENSG00000175137	SH3BP5L subnetwork	0.95471222	1.12740668
ENSG00000130560	UBAC1 subnetwork	0.95488768	1.12743084
ENSG00000067842	ATP2B3 subnetwork	0.95469063	1.12747851

GO:0032331	negative regulation of chondrocyte differentiation	0.95487612	1.127510846
GO:0005681	spliceosomal complex	0.47532469	1.127519255
GO:0045598	regulation of fat cell differentiation	0.95460126	1.127552608
ENSG00000071655	MBD3 subnetwork	0.47526792	1.12755577
GO:0001669	acrosomal vesicle	0.95468501	1.127566727
GO:0032365	intracellular lipid transport	0.95455681	1.12760809
ENSG00000159346	ADIPOR1 subnetwork	0.4756813	1.127621873
ENSG00000063761	ADCK1 subnetwork	0.47561905	1.127698476
ENSG00000099937	SERPIND1 subnetwork	0.95455563	1.127700434
GO:0016925	protein sumoylation	0.95433993	1.127756389
GO:0010559	regulation of glycoprotein biosynthetic process	0.47656207	1.127757324
ENSG00000077943	ITGA8 subnetwork	0.47720498	1.12776623
ENSG00000215021	PHB2 subnetwork	0.47580062	1.127769761
GO:0070328	triglyceride homeostasis	0.95454628	1.127772318
MP:0009549	decreased platelet aggregation	0.95444655	1.127782783
GO:0010574	regulation of vascular endothelial growth factor production	0.47558835	1.127791145
GO:0005782	peroxisomal matrix	0.47599142	1.127816958
MP:0001405	impaired coordination	0.95432031	1.127824199
ENSG00000100612	DHRS7 subnetwork	0.47670348	1.127864917
ENSG00000105204	DYRK1B subnetwork	0.47653489	1.127873839
REACTOME_N:GLYCAN_ANTENNAE_ELONGATION	REACTOME_N:GLYCAN_ANTENNAE_ELONGATION	0.4760965	1.127892628
GO:0050908	detection of light stimulus involved in visual perception	0.95429704	1.127896117
ENSG00000143476	DTL subnetwork	0.47679912	1.127900464
KEGG_INOSITOL_PHOSPHATE_METABOLISM	KEGG_INOSITOL_PHOSPHATE_METABOLISM	0.47719208	1.127938589
ENSG00000079435	LIPE subnetwork	0.47698598	1.12793953
ENSG00000100650	SRSF5 subnetwork	0.47709145	1.127959053
ENSG00000178363	CALML3 subnetwork	0.47647597	1.127966373
GO:0030126	COPI vesicle coat	0.47641454	1.127970852
GO:0010573	vascular endothelial growth factor production	0.47558835	1.127972084
GO:0050962	detection of light stimulus involved in sensory perception	0.95429704	1.127988529
GO:0031907	microbody lumen	0.47599142	1.127997756
MP:0000269	abnormal heart looping	0.47637576	1.128031395
GO:0004806	triglyceride lipase activity	0.47695539	1.128032
MP:0003720	abnormal neural tube closure	0.4761916	1.128032367
ENSG00000164168	TMEM184C subnetwork	0.95428806	1.128080957
ENSG00000128881	TTBK2 subnetwork	0.4763269	1.128107978
ENSG00000077522	ACTN2 subnetwork	0.95426935	1.128165205
ENSG00000133101	CCNA1 subnetwork	0.47774368	1.128199393
GO:0090257	regulation of muscle system process	0.9542511	1.128233077
ENSG00000132780	NASP subnetwork	0.47789721	1.128262258
ENSG00000213044	ENSG00000213044 subnetwork	0.9542141	1.128296861
MP:0008225	abnormal anterior commissure morphology	0.47755974	1.128300831
ENSG00000176986	SEC24C subnetwork	0.47771493	1.128315756
MP:0002237	abnormal nasal cavity morphology	0.95420068	1.128372951
ENSG00000008018	PSMB1 subnetwork	0.47752652	1.128385292
MP:0003331	hepatocellular carcinoma	0.47801209	1.1283855
ENSG00000131773	KHDRBS3 subnetwork	0.95415	1.128412165
ENSG00000142507	PSMB6 subnetwork	0.4778865	1.128442492
ENSG00000197249	SERPINA1 subnetwork	0.95406934	1.128447286
ENSG00000008869	HEATR5B subnetwork	0.47769218	1.128456129
GO:0016805	dipeptidase activity	0.95401569	1.128474215
GO:0006661	phosphatidylinositol biosynthetic process	0.47811657	1.128476768
ENSG00000166887	VPS39 subnetwork	0.95391972	1.128488849

REACTOME_TRANSLATION	REACTOME_TRANSLATION	0.95386966	1.128507585
REACTOME_SPRY_REGULATION_OF_FGF_SIGNALING	REACTOME_SPRY_REGULATION_OF_FGF_SIGNALING	0.95385655	1.12858783
MP:0000010	abnormal abdominal fat pad morphology	0.47824221	1.128623883
GO:0048678	response to axon injury	0.95383918	1.128672189
MP:0002650	abnormal ameloblast morphology	0.95382028	1.12874836
ENSG00000184979	USP18 subnetwork	0.47844566	1.128782317
ENSG00000101654	RNMT subnetwork	0.4783683	1.128794892
ENSG00000108852	MPP2 subnetwork	0.95380587	1.128820441
GO:0015850	organic alcohol transport	0.95378769	1.128888433
GO:0008375	acetylglucosaminyltransferase activity	0.47975502	1.12892391
ENSG00000100591	AHSA1 subnetwork	0.95365949	1.128965291
MP:0003732	abnormal retinal outer plexiform layer morphology	0.95378202	1.128981048
MP:0009743	preaxial polydactyly	0.47960619	1.128996815
GO:0051537	2 iron, 2 sulfur cluster binding	0.47968853	1.12901608
GO:0016505	apoptotic protease activator activity	0.95377169	1.129044962
GO:0014855	striated muscle cell proliferation	0.9536516	1.129053832
GO:0070242	thymocyte apoptotic process	0.47956129	1.129065138
ENSG00000198938	MT-CO3 subnetwork	0.95363398	1.129105458
ENSG00000169217	CD2BP2 subnetwork	0.47951517	1.129125518
REACTOME_RNA_POLYMERASE_III_TRANSCRIPTION_INITIATION	REACTOME_RNA_POLYMERASE_III_TRANSCRIPTION_INITIATION	0.47893633	1.129134109
ENSG00000102362	SYTL4 subnetwork	0.95360787	1.129185817
MP:0003817	abnormal pituitary diverticulum morphology	0.47905727	1.129201212
ENSG00000164944	KIAA1429 subnetwork	0.47993154	1.129205793
ENSG00000168067	MAP4K2 subnetwork	0.47947602	1.129209814
ENSG00000206383	HSPA1L subnetwork	0.47941815	1.129214468
REACTOME_LATE_PHASE_OF_HIV_LIFE_CYCLE	REACTOME_LATE_PHASE_OF_HIV_LIFE_CYCLE	0.4786834	1.129248444
GO:0071805	potassium ion transmembrane transport	0.95359218	1.129262087
MP:0010301	increased stomach tumor incidence	0.48005344	1.129296626
ENSG00000122566	HNRNPA2B1 subnetwork	0.4789336	1.12930622
GO:0071804	cellular potassium ion transport	0.95359218	1.129354786
GO:0043242	negative regulation of protein complex disassembly	0.48016981	1.129371519
ENSG00000206274	ENSG00000206274 subnetwork	0.47941815	1.129394422
GO:0006184	GTP catabolic process	0.95346029	1.129400657
ENSG00000197561	ELANE subnetwork	0.95341957	1.129423598
REACTOME_E2F_MEDIATED_REGULATION_OF_DNA_REPLICATION	REACTOME_E2F_MEDIATED_REGULATION_OF_DNA_REPLICATION	0.95357414	1.129431081
ENSG00000117153	KLHL12 subnetwork	0.47891965	1.129454458
MP:0008451	retinal rod cell degeneration	0.47885108	1.12950702
MP:0005536	Leydig cell hypoplasia	0.47939229	1.129510679
GO:0010043	response to zinc ion	0.95341706	1.129512235
MP:0003638	abnormal response/metabolism to endogenous compound	0.95335407	1.129526977
ENSG00000114742	WDR48 subnetwork	0.95330738	1.129586892
GO:0051436	negative regulation of ubiquitin-protein ligase activity involved in	0.9532355	1.129609856
REACTOME_ASSEMBLY_OF_THE_PRE-REPLICATIVE_COMPLEX	REACTOME_ASSEMBLY_OF_THE_PRE-REPLICATIVE_COMPLEX	0.47937038	1.129634943
ENSG00000215104	ENSG00000215104 subnetwork	0.95321306	1.129682109
ENSG00000158301	GPRASP2 subnetwork	0.95321037	1.129774912
MP:0008028	pregnancy-related premature death	0.95320023	1.129855406
ENSG00000103187	COTL1 subnetwork	0.95316341	1.129911264
GO:0006937	regulation of muscle contraction	0.95299714	1.12991618
GO:0071277	cellular response to calcium ion	0.95297266	1.129951512
GO:0032890	regulation of organic acid transport	0.95311616	1.129958915
GO:0034220	ion transmembrane transport	0.95296086	1.130044382
GO:0072203	cell proliferation involved in metanephros development	0.95290958	1.130104389
MP:0004046	abnormal mitosis	0.95284551	1.130106864

ENSG00000107623	GDF10 subnetwork	0.95282631	1.130183328
GO:0001085	RNA polymerase II transcription factor binding	0.95277845	1.130202253
MP:0005104	abnormal tarsal bone morphology	0.9527719	1.130291071
ENSG00000135597	REPS1 subnetwork	0.95270654	1.130310007
MP:0001175	abnormal lung morphology	0.48060481	1.130313395
MP:0008948	decreased neuron number	0.95268938	1.130378289
GO:0046415	urate metabolic process	0.95257458	1.130407962
GO:0009109	coenzyme catabolic process	0.48071896	1.130419914
ENSG00000148688	RPP30 subnetwork	0.95267032	1.130438358
GO:0030002	cellular anion homeostasis	0.95255162	1.130480382
ENSG00000179950	PUF60 subnetwork	0.48081856	1.130510496
GO:0042053	regulation of dopamine metabolic process	0.9525333	1.130556927
MP:0000438	abnormal cranium morphology	0.95249366	1.130604689
GO:0090287	regulation of cellular response to growth factor stimulus	0.95248294	1.130689485
GO:0048863	stem cell differentiation	0.95245903	1.130766066
MP:0005182	increased circulating estradiol level	0.95235177	1.130789171
ENSG00000172137	CALB2 subnetwork	0.95235067	1.130882232
ENSG00000155980	KIF5A subnetwork	0.48110109	1.130919065
ENSG00000189369	GSPT2 subnetwork	0.95232924	1.130967078
ENSG00000100162	CENPM subnetwork	0.95208077	1.130987075
GO:0010657	muscle cell apoptotic process	0.95159377	1.131010625
GO:0030878	thyroid gland development	0.95197903	1.131041581
MP:0003054	spina bifida	0.95232343	1.13106017
MP:0000752	dystrophic muscle	0.95156399	1.131062603
ENSG00000142515	KLK3 subnetwork	0.95207096	1.131063725
GO:0009749	response to glucose stimulus	0.95186973	1.131079634
GO:0051438	regulation of ubiquitin-protein ligase activity	0.95195032	1.131089427
ENSG00000143850	PLEKHA6 subnetwork	0.9522627	1.131091538
MP:0010403	atrial septal defect	0.9515243	1.131118708
ENSG00000089685	BIRC5 subnetwork	0.95133363	1.131119717
GO:0007338	single fertilization	0.95184539	1.131156317
MP:0005253	abnormal eye physiology	0.95148093	1.131162465
GO:0010001	glial cell differentiation	0.95130917	1.13120056
ENSG00000107537	PHYH subnetwork	0.95127069	1.131273177
ENSG00000164109	MAD2L1 subnetwork	0.95119987	1.131275754
ENSG00000184445	KNTC1 subnetwork	0.95116569	1.131340147
ENSG00000100138	NHP2L1 subnetwork	0.48143214	1.131370211
GO:0051702	interaction with symbiont	0.48273582	1.13139369
ENSG00000089818	NECAP1 subnetwork	0.95114144	1.131412793
ENSG00000165304	MELK subnetwork	0.48137889	1.131422893
MP:0009814	increased prostaglandin level	0.48245367	1.131453276
ENSG00000106399	RPA3 subnetwork	0.48233747	1.131466201
ENSG00000166033	HTRA1 subnetwork	0.95113489	1.131501937
ENSG00000187514	PTMA subnetwork	0.4822064	1.131571429
ENSG00000084092	NOA1 subnetwork	0.48273578	1.131573105
REACTOME_REMOVAL_OF_LIC	REACTOME_REMOVAL_OF_LICENSING_FACTORS_FROM_O	0.48229962	1.131590224
ENSG00000113658	SMAD5 subnetwork	0.95113472	1.131595218
ENSG00000151422	FER subnetwork	0.48290558	1.131610653
GO:0034374	low-density lipoprotein particle remodeling	0.95050071	1.131611945
GO:0031663	lipopolysaccharide-mediated signaling pathway	0.48298874	1.131613568
GO:0043524	negative regulation of neuron apoptotic process	0.95108658	1.131614313
GO:0043300	regulation of leukocyte degranulation	0.95069269	1.131668591
ENSG00000108669	CYTH1 subnetwork	0.95104509	1.13167876

GO:0005881	cytoplasmic microtubule	0.48266402	1.131686231
MP:0002151	abnormal neural tube morphology/development	0.48270991	1.131689136
ENSG00000160075	SSU72 subnetwork	0.48218772	1.131695507
ENSG00000186051	TAL2 subnetwork	0.95064691	1.131700074
GO:0008236	serine-type peptidase activity	0.4821034	1.13170054
ENSG00000135338	LCA5 subnetwork	0.95049637	1.13170118
MP:0001282	short vibrissae	0.48196601	1.131718551
GO:0050769	positive regulation of neurogenesis	0.48203268	1.131721455
ENSG00000187323	DCC subnetwork	0.95091922	1.131729342
MP:0004384	small interparietal bone	0.95101362	1.131743218
GO:0003012	muscle system process	0.95087513	1.131756701
GO:0007528	neuromuscular junction development	0.95047924	1.131773927
GO:0009070	serine family amino acid biosynthetic process	0.94980397	1.131807299
GO:0032728	positive regulation of interferon-beta production	0.95043688	1.131817807
GO:0033028	myeloid cell apoptotic process	0.48192908	1.131850675
ENSG00000136938	ANP32B subnetwork	0.48325355	1.13187292
MP:0011089	complete perinatal lethality	0.94993214	1.131874845
GO:0070167	regulation of biomineral tissue development	0.94977118	1.131875981
ENSG00000171566	PLRG1 subnetwork	0.48320031	1.131893819
ENSG00000114353	GNAI2 subnetwork	0.95042563	1.131902954
KEGG_PENTOSE_AND_GLUCURONATE_INTERCONVERSION	KEGG_PENTOSE_AND_GLUCURONATE_INTERCONVERSION	0.94974377	1.131940545
MP:0002275	abnormal type II pneumocyte morphology	0.95027249	1.131945362
REACTOME_INHIBITION_OF_REPLICATION_INITIATION_OF	REACTOME_INHIBITION_OF_REPLICATION_INITIATION_OF	0.48188283	1.131951065
GO:0042165	neurotransmitter binding	0.95038597	1.131963357
REACTOME_SRP:DEPENDENT_COTRANSLATIONAL_PROTEIN	REACTOME_SRP:DEPENDENT_COTRANSLATIONAL_PROTEIN	0.9502178	1.131985142
MP:0003131	increased erythrocyte cell number	0.48183526	1.132011759
GO:0006865	amino acid transport	0.9497328	1.132029895
GO:0060571	morphogenesis of an epithelial fold	0.95014941	1.13204144
ENSG00000140650	PMM2 subnetwork	0.48177158	1.132096313
GO:0042220	response to cocaine	0.94971045	1.13211513
GO:0014073	response to tropane	0.94971045	1.13220864
GO:0045604	regulation of epidermal cell differentiation	0.94957934	1.132263527
ENSG00000090273	NUDC subnetwork	0.94967961	1.132293904
MP:0001300	ocular hypertelorism	0.94957513	1.132357072
MP:0000886	abnormal cerebellar granule layer	0.94953845	1.132392795
GO:0061061	muscle structure development	0.94952351	1.132457445
GO:0043178	alcohol binding	0.94950691	1.132534501
ENSG00000140941	MAP1LC3B subnetwork	0.94949628	1.132619835
ENSG00000099940	SNAP29 subnetwork	0.48385763	1.132684086
ENSG00000197043	ANXA6 subnetwork	0.48367358	1.132691698
ENSG00000169021	UQCRCF1 subnetwork	0.94948048	1.13270105
GO:0014020	primary neural tube formation	0.94942612	1.132716151
GO:0048038	quinone binding	0.48383282	1.132792208
ENSG00000168090	COPS6 subnetwork	0.94941692	1.132805654
GO:0030016	myofibril	0.94925537	1.132823481
GO:0045104	intermediate filament cytoskeleton organization	0.94917357	1.132851
ENSG00000106305	AIMP2 subnetwork	0.94913577	1.132870256
GO:0019229	regulation of vasoconstriction	0.94940241	1.132891038
MP:0004084	abnormal cardiac muscle relaxation	0.94908709	1.132914324
ENSG00000142657	PGD subnetwork	0.48382311	1.132947885
ENSG00000206456	ENSG00000206456 subnetwork	0.94908202	1.133003887
ENSG00000204655	MOG subnetwork	0.94908202	1.133097601
GO:0006790	sulfur compound metabolic process	0.94884389	1.13311409

ENSG00000137345	MOG subnetwork	0.94908202	1.133191331
MP:0008428	abnormal spatial working memory	0.94883465	1.13319957
ENSG00000068796	KIF2A subnetwork	0.94902966	1.133223031
GO:0006820	anion transport	0.94879259	1.133247828
GO:0070997	neuron death	0.94872728	1.133283681
MP:0002754	dilated heart right ventricle	0.94867932	1.133302988
GO:0046426	negative regulation of JAK-STAT cascade	0.48505307	1.133325431
MP:0000749	muscle degeneration	0.94867543	1.133396789
ENSG00000182185	RAD51B subnetwork	0.48502823	1.133449257
ENSG00000186879	ENSG00000186879 subnetwork	0.48520112	1.133462389
ENSG00000215467	ENSG00000215467 subnetwork	0.94867253	1.133490605
ENSG00000142192	APP subnetwork	0.94865688	1.133563742
ENSG00000171942	OR10H2 subnetwork	0.48501125	1.133573123
ENSG00000092841	MYL6 subnetwork	0.48430849	1.133644712
GO:0003407	neural retina development	0.94865583	1.133657588
MP:0000031	abnormal cochlea morphology	0.9485998	1.133668654
GO:0090199	regulation of release of cytochrome c from mitochondria	0.48476284	1.133736751
GO:0006289	nucleotide-excision repair	0.48500802	1.133744466
MP:0006309	decreased retinal ganglion cell number	0.94858793	1.133750104
ENSG00000154415	PPP1R3A subnetwork	0.48468512	1.133773734
GO:0031652	positive regulation of heat generation	0.48495685	1.133781433
GO:0010226	response to lithium ion	0.94858136	1.133831567
GO:0060419	heart growth	0.9485213	1.133846791
ENSG00000214133	ENSG00000214133 subnetwork	0.94839752	1.133852398
GO:0050900	leukocyte migration	0.48456625	1.133855651
ENSG00000107295	SH3GL2 subnetwork	0.48465387	1.133866118
MP:0003888	liver hemorrhage	0.48448666	1.133884755
ENSG00000198722	UNC13B subnetwork	0.9485141	1.133936558
ENSG00000158623	COPG2 subnetwork	0.94839752	1.133946322
GO:0031650	regulation of heat generation	0.48495685	1.133960772
ENSG00000072864	NDE1 subnetwork	0.94838423	1.134027835
ENSG00000198000	NOL8 subnetwork	0.94827849	1.134079045
ENSG00000174125	TLR1 subnetwork	0.94835876	1.134080365
REACTOME_COMMON_PATHV	REACTOME_COMMON_PATHWAY	0.94809142	1.134149677
ENSG00000198728	LDB1 subnetwork	0.94801497	1.134156651
REACTOME_IRON_UPTAKE_AN	REACTOME_IRON_UPTAKE_AND_TRANSPORT	0.94826493	1.13416059
GO:0030500	regulation of bone mineralization	0.94824806	1.134225574
MP:0005574	decreased pulmonary respiratory rate	0.94799183	1.134225796
ENSG00000143520	FLG2 subnetwork	0.94789929	1.134249358
GO:0030073	insulin secretion	0.94774665	1.134255037
ENSG00000083093	PALB2 subnetwork	0.94772079	1.134311774
MP:0000162	lordosis	0.9474752	1.134316165
GO:0046039	GTP metabolic process	0.94789743	1.134343392
GO:0008210	estrogen metabolic process	0.94766002	1.13434779
GO:0031080	Nup107-160 complex	0.94757377	1.134350639
GO:0016597	amino acid binding	0.94746469	1.134401958
GO:0072001	renal system development	0.94746308	1.13449606
GO:0032095	regulation of response to food	0.94744205	1.134561142
GO:0050818	regulation of coagulation	0.947403	1.134622086
GO:0051216	cartilage development	0.94736914	1.134674743
ENSG00000161888	SPC24 subnetwork	0.94728376	1.13473029
ENSG00000123838	C4BPA subnetwork	0.48584107	1.134747235
GO:0005882	intermediate filament	0.94734978	1.134752303

MP:0008825	abnormal cardiac epithelial to mesenchymal transition	0.94724234	1.134753921
ENSG00000133710	SPINK5 subnetwork	0.94720244	1.134806607
GO:0031424	keratinization	0.48577857	1.134808027
ENSG00000135446	CDK4 subnetwork	0.48593394	1.134836519
MP:0001004	abnormal retinal photoreceptor morphology	0.94718703	1.134863451
ENSG00000127884	ECHS1 subnetwork	0.48611842	1.134920259
GO:0043576	regulation of respiratory gaseous exchange	0.94718171	1.134957662
REACTOME_MRNA_PROCESSING	REACTOME_MRNA_PROCESSING	0.48608329	1.135020531
REACTOME_RECYCLING_PATHWAY_OF_L1	REACTOME_RECYCLING_PATHWAY_OF_L1	0.94717287	1.135043587
REACTOME_THROMBIN_SIGNALING_THROUGH_PROTEIN	REACTOME_THROMBIN_SIGNALING_THROUGH_PROTEIN	0.94717065	1.135137828
ENSG00000031691	CENPQ subnetwork	0.94714566	1.135207174
ENSG00000111716	LDHB subnetwork	0.94712129	1.135251619
ENSG00000143995	MEIS1 subnetwork	0.48640053	1.135280189
MP:0008450	retinal photoreceptor degeneration	0.94711361	1.135329292
GO:0008430	selenium binding	0.48634006	1.135348911
ENSG00000189091	SF3B3 subnetwork	0.48648892	1.135353535
GO:0034505	tooth mineralization	0.94699971	1.13536008
GO:0001736	establishment of planar polarity	0.9470905	1.135361296
GO:0051340	regulation of ligase activity	0.9469289	1.135363017
GO:0040001	establishment of mitotic spindle localization	0.94691316	1.135449032
ENSG00000119408	NEK6 subnetwork	0.48668988	1.135468602
GO:0042375	quinone cofactor metabolic process	0.48713095	1.135482346
GO:0055017	cardiac muscle tissue growth	0.94679516	1.135492314
ENSG00000182492	BGN subnetwork	0.94686646	1.135501828
MP:0004229	abnormal embryonic erythropoiesis	0.48693971	1.135538559
GO:0051188	cofactor biosynthetic process	0.48664931	1.135584662
GO:0015012	heparan sulfate proteoglycan biosynthetic process	0.94678746	1.135586671
ENSG00000100034	PPM1F subnetwork	0.48711762	1.13560618
MP:0009355	increased liver triglyceride level	0.4869112	1.135615142
GO:0030163	protein catabolic process	0.48685368	1.135628648
ENSG00000047457	CP subnetwork	0.94677567	1.135668578
ENSG00000179051	RCC2 subnetwork	0.94673216	1.135700632
REACTOME_HEMOSTASIS	REACTOME_HEMOSTASIS	0.48708672	1.135737938
GO:0046716	muscle cell homeostasis	0.94672128	1.135782562
GO:0009185	ribonucleoside diphosphate metabolic process	0.94656408	1.135796824
MP:0005590	increased vasodilation	0.94668311	1.135852037
MP:0001674	abnormal triploblastic development	0.94609671	1.135860434
ENSG00000178127	NDUFV2 subnetwork	0.94653938	1.135870469
GO:0003338	metanephros morphogenesis	0.94640813	1.135909696
ENSG00000011275	RNF216 subnetwork	0.94606928	1.135917485
ENSG00000007168	PAFAH1B1 subnetwork	0.9465385	1.135960755
MP:0002267	abnormal bronchiole morphology	0.94605	1.135991182
MP:0001522	impaired swimming	0.946397	1.135991684
GO:0016459	myosin complex	0.94597762	1.136014975
ENSG00000088986	DYNLL1 subnetwork	0.94635999	1.136048736
GO:0043198	dendritic shaft	0.94596668	1.136097013
ENSG00000159210	SNF8 subnetwork	0.94594994	1.136187386
ENSG00000155097	ATP6V1C1 subnetwork	0.94591663	1.13626113
GO:0060004	reflex	0.94590608	1.136351531
ENSG00000077157	PPP1R12B subnetwork	0.48756225	1.136359338
GO:0051322	anaphase	0.94587778	1.136416979
ENSG00000104313	EYA1 subnetwork	0.94583669	1.13646579
GO:0000096	sulfur amino acid metabolic process	0.94574013	1.136468825

KEGG_ETHER_LIPID_METABOL	KEGG_ETHER_LIPID_METABOLISM	0.94565655	1.136484349
ENSG00000151914	DST subnetwork	0.94564762	1.136566481
ENSG00000165409	TSHR subnetwork	0.48774426	1.136582099
GO:0001822	kidney development	0.9456401	1.136661116
MP:0005633	increased circulating sodium level	0.94557179	1.136664169
ENSG00000166147	FBN1 subnetwork	0.94556657	1.136758827
ENSG00000051128	HOMER3 subnetwork	0.94554073	1.136828517
ENSG00000142156	COL6A1 subnetwork	0.94548852	1.136860736
ENSG00000120334	CENPL subnetwork	0.9454751	1.13695127
ENSG00000091704	CPA1 subnetwork	0.94545359	1.137004332
GO:0032400	melanosome localization	0.94542293	1.137069899
ENSG00000033050	ABCF2 subnetwork	0.94529803	1.137121907
ENSG00000171362	ENSG00000171362 subnetwork	0.94539566	1.137122298
ENSG00000134690	CDCA8 subnetwork	0.94527358	1.137191667
GO:0017171	serine hydrolase activity	0.48869885	1.137244256
GO:0046356	acetyl-CoA catabolic process	0.48825634	1.137257836
ENSG00000081019	RSBN1 subnetwork	0.48863849	1.137257988
ENSG00000103168	TAF1C subnetwork	0.48876805	1.137285602
ENSG00000188312	CENPP subnetwork	0.94527301	1.137286441
GO:0030137	COPI-coated vesicle	0.48819299	1.137326717
ENSG00000125351	UPF3B subnetwork	0.48857117	1.137334698
ENSG00000075388	FGF4 subnetwork	0.9452526	1.137352059
GO:0006929	substrate-dependent cell migration	0.48839453	1.137370079
ENSG00000102024	PLS3 subnetwork	0.48989913	1.137417582
GO:0005525	GTP binding	0.94522617	1.137430191
MP:0004398	cochlear inner hair cell degeneration	0.48853465	1.137450795
MP:0009397	increased trophoblast giant cell number	0.4897737	1.137468593
GO:0005085	guanyl-nucleotide exchange factor activity	0.48963157	1.137496073
ENSG00000215440	NPEPL1 subnetwork	0.48819089	1.137498031
GO:0000070	mitotic sister chromatid segregation	0.94522458	1.13752084
GO:0008028	monocarboxylic acid transmembrane transporter activity	0.48988118	1.137549066
GO:0051259	protein oligomerization	0.48973159	1.13758442
ENSG00000165588	OTX2 subnetwork	0.94521777	1.137611505
ENSG00000148303	RPL7A subnetwork	0.4896245	1.137659073
ENSG00000116337	AMPD2 subnetwork	0.49013182	1.137664783
GO:0030834	regulation of actin filament depolymerization	0.49007473	1.137678543
GO:0009125	nucleoside monophosphate catabolic process	0.94520653	1.137693847
GO:0005543	phospholipid binding	0.49172338	1.137695557
ENSG00000074370	ATP2A3 subnetwork	0.94510774	1.137713666
ENSG00000120071	KIAA1267 subnetwork	0.49165961	1.13775622
GO:0005100	Rho GTPase activator activity	0.48904349	1.137783197
GO:0055081	anion homeostasis	0.94499157	1.137799183
ENSG00000177105	RHOG subnetwork	0.49028354	1.137800094
GO:0050911	detection of chemical stimulus involved in sensory percepti	0.9451067	1.13780437
MP:0000250	abnormal vasoconstriction	0.48960802	1.137806411
ENSG00000175895	PLEKHF2 subnetwork	0.49158356	1.137832551
GO:0016409	palmitoyltransferase activity	0.94495336	1.137848207
ENSG00000213416	KRTAP4-12 subnetwork	0.48947749	1.137857592
GO:0045746	negative regulation of Notch signaling pathway	0.94477838	1.137862863
GO:0042059	negative regulation of epidermal growth factor receptor sig	0.489346	1.137869497
MP:0005215	abnormal pancreatic islet morphology	0.94486302	1.137872216
MP:0006254	thin cerebral cortex	0.49150568	1.137893254
GO:0043568	positive regulation of insulin-like growth factor receptor sig	0.48957941	1.137914506

ENSG00000105656	ELL subnetwork	0.48916957	1.137926695
MP:0000921	demyelination	0.48929634	1.137938355
GO:0009394	2'-deoxyribonucleotide metabolic process	0.94477169	1.137949445
ENSG00000188223	LIN37 subnetwork	0.49091053	1.137956433
ENSG00000105705	SUGP1 subnetwork	0.49055305	1.137962673
ENSG00000197343	ZNF655 subnetwork	0.49098278	1.137966155
GO:0005109	frizzled binding	0.49134778	1.138005011
GO:0042277	peptide binding	0.49148776	1.138016594
ENSG00000166477	LEO1 subnetwork	0.49085649	1.138017241
ENSG00000212908	ENSG00000212908 subnetwork	0.48947749	1.138036472
ENSG00000145362	ANK2 subnetwork	0.94476652	1.138044385
MP:0004772	abnormal bile secretion	0.49044853	1.138060872
ENSG00000151702	FLI1 subnetwork	0.4905309	1.138086275
MP:0004937	dilated heart	0.94473071	1.138097622
GO:0006816	calcium ion transport	0.49145046	1.138108658
GO:0043236	laminin binding	0.48928899	1.138109468
GO:0033599	regulation of mammary gland epithelial cell proliferation	0.49080944	1.138125098
GO:0050873	brown fat cell differentiation	0.49133321	1.138128426
GO:0060688	regulation of morphogenesis of a branching structure	0.94470961	1.138163385
GO:0006829	zinc ion transport	0.49124945	1.138189223
GO:0046854	phosphatidylinositol phosphorylation	0.49120002	1.138195206
MP:0002452	abnormal antigen presenting cell physiology	0.490698	1.138215462
ENSG00000128908	INO80 subnetwork	0.49077748	1.138232988
REACTOME_FGFR2_LIGAND_BINDING_AND_ACTIVATION	REACTOME_FGFR2_LIGAND_BINDING_AND_ACTIVATION	0.94469596	1.138241676
ENSG00000211662	ENSG00000211662 subnetwork	0.94466744	1.138299115
REACTOME_BOTULINUM_NEUROTOXICITY	REACTOME_BOTULINUM_NEUROTOXICITY	0.94455248	1.138338898
ENSG00000102384	CENPI subnetwork	0.94464516	1.138356565
ENSG00000112739	PRPF4B subnetwork	0.49202641	1.138362271
GO:0000930	gamma-tubulin complex	0.94452837	1.138379664
ENSG00000085978	ATG16L1 subnetwork	0.94443604	1.138382869
ENSG00000129757	CDKN1C subnetwork	0.9441469	1.13839666
GO:0048854	brain morphogenesis	0.94408657	1.138424921
ENSG00000198918	RPL39 subnetwork	0.94443569	1.138477916
ENSG00000130193	C8orf55 subnetwork	0.49259183	1.138512035
ENSG00000058866	DGKG subnetwork	0.94408177	1.138520003
ENSG00000005884	ITGA3 subnetwork	0.49312491	1.13852459
ENSG00000198356	ASNA1 subnetwork	0.94440939	1.138527054
ENSG00000198612	COPS8 subnetwork	0.4930691	1.138569644
MP:0009417	skeletal muscle atrophy	0.49320791	1.138573213
REACTOME_CELL_CELL_COMMUNICATION	REACTOME_CELL_CELL_COMMUNICATION	0.49285711	1.138603343
ENSG00000074071	MRPS34 subnetwork	0.94395763	1.138605797
ENSG00000038358	EDC4 subnetwork	0.4925522	1.138611849
ENSG00000160783	PMF1 subnetwork	0.94407775	1.138615102
ENSG00000184381	PLA2G6 subnetwork	0.49281362	1.138632813
MP:0001685	abnormal endoderm development	0.94382873	1.138641491
MP:0000088	short mandible	0.94392022	1.138650794
ENSG00000188843	ENSG00000188843 subnetwork	0.49294854	1.138651984
GO:0016328	lateral plasma membrane	0.49302079	1.138661565
GO:0045940	positive regulation of steroid metabolic process	0.4941037	1.138701886
REACTOME_RNA_POLYMERASE_I_CHAIN_ELONGATION	REACTOME_RNA_POLYMERASE_I_CHAIN_ELONGATION	0.49402474	1.138707918
ENSG00000122952	ZWINT subnetwork	0.94382548	1.138728275
GO:0042698	ovulation cycle	0.49276473	1.138748242
ENSG00000135503	ACVR1B subnetwork	0.49242079	1.138749023

REACTOME_INITIAL_TRIGGERING_OF_COMPLEMENT	0.49398174	1.138760717
MP:0003224 neuron degeneration	0.49253666	1.138774234
ENSG00000198730 CTR9 subnetwork	0.49373392	1.138802246
GO:0051320 S phase	0.49421786	1.138804924
GO:0042056 chemoattractant activity	0.94382402	1.138823431
ENSG00000126698 DNAJC8 subnetwork	0.49348262	1.138826467
GO:0015992 proton transport	0.49367709	1.138831696
GO:0071407 cellular response to organic cyclic compound	0.49239416	1.13887238
KEGG_ECM_RECEPTOR_INTERACTION	0.49395295	1.138899283
GO:0004843 ubiquitin-specific protease activity	0.49343434	1.138910567
REACTOME_INSULIN_RECEPTOR_SIGNALING_CASCADE	0.94382302	1.138918603
ENSG00000129048 CCRL1 subnetwork	0.49391941	1.138983315
GO:0032011 ARF protein signal transduction	0.94381249	1.139001254
GO:0006521 regulation of cellular amino acid metabolic process	0.49361975	1.139007645
ENSG00000113196 HAND1 subnetwork	0.4936724	1.13900936
REACTOME_EUKARYOTIC_TRANSLATION_TERMINATION	0.9437847	1.139092277
ENSG0000030066 NUP160 subnetwork	0.94370713	1.139099724
GO:0007093 mitotic cell cycle checkpoint	0.94369337	1.139165691
GO:0032225 regulation of synaptic transmission, dopaminergic	0.94359719	1.13923913
GO:0072283 metanephric renal vesicle morphogenesis	0.94368376	1.13924421
GO:0060119 inner ear receptor cell development	0.94358177	1.139313488
MP:0003694 failure to hatch from the zona pellucida	0.94345198	1.139328427
GO:0051378 serotonin binding	0.94353445	1.139354407
ENSG00000166579 NDEL1 subnetwork	0.94341499	1.139419538
MP:0003384 abnormal ventral body wall morphology	0.94324944	1.139442864
ENSG00000125885 MCM8 subnetwork	0.94335317	1.139468841
ENSG00000205022 PABPN1L subnetwork	0.49463316	1.139493769
GO:0046128 purine ribonucleoside metabolic process	0.94324938	1.139538191
ENSG00000134809 TIMM10 subnetwork	0.49459551	1.139546658
GO:0048368 lateral mesoderm development	0.94324899	1.139633534
GO:0051924 regulation of calcium ion transport	0.94322763	1.139707974
GO:0051155 positive regulation of striated muscle cell differentiation	0.94322011	1.139799163
ENSG00000056678 ENSG00000056678 subnetwork	0.49520942	1.13980862
ENSG00000115138 POMC subnetwork	0.49478862	1.139845818
MP:0002887 decreased susceptibility to pharmacologically induced seizure	0.94307436	1.139856043
ENSG00000153113 CAST subnetwork	0.94321282	1.139881998
GO:0032835 glomerulus development	0.94293914	1.139892014
GO:0016208 AMP binding	0.94305634	1.139926341
MP:0000786 abnormal embryonic neuroepithelial layer differentiation	0.49533383	1.139942439
GO:0006936 muscle contraction	0.94291456	1.139979071
ENSG00000204197 KIFC1 subnetwork	0.49520942	1.139985994
MP:0005262 coloboma	0.94291455	1.140074514
MP:0004770 abnormal synaptic vesicle recycling	0.94284764	1.140107176
ENSG00000136813 KIAA0368 subnetwork	0.49518958	1.140108949
ENSG00000077721 UBE2A subnetwork	0.49544719	1.140130658
ENSG00000163535 SGOL2 subnetwork	0.94274074	1.140180889
GO:0060021 palate development	0.94283525	1.140190085
GO:0043087 regulation of GTPase activity	0.49516406	1.140231943
GO:0042517 positive regulation of tyrosine phosphorylation of Stat3 protein	0.49500479	1.140260044
GO:0010799 regulation of peptidyl-threonine phosphorylation	0.94274067	1.140276382
ENSG00000176444 CLK2 subnetwork	0.4956042	1.14029549
KEGG_PENTOSE_PHOSPHATE_PATHWAY	0.94271756	1.140346763
ENSG00000130640 TUBGCP2 subnetwork	0.94265646	1.140383649

ENSG00000106541	AGR2 subnetwork	0.49515732	1.140393897
GO:0010714	positive regulation of collagen metabolic process	0.94250687	1.140398794
GO:0032481	positive regulation of type I interferon production	0.94259097	1.140407975
GO:0032967	positive regulation of collagen biosynthetic process	0.94250687	1.140494344
GO:0090276	regulation of peptide hormone secretion	0.94246899	1.140552204
MP:0011110	partial preweaning lethality	0.94227408	1.140554811
ENSG00000211619	ENSG00000211619 subnetwork	0.94241722	1.140597503
ENSG00000120437	ACAT2 subnetwork	0.9422339	1.140600117
REACTOME_ION_TRANSPORT_	REACTOME_ION_TRANSPORT_BY_P:TYPE_ATPASES	0.94223197	1.140695725
GO:0003044	regulation of systemic arterial blood pressure mediated by	0.94222193	1.140778774
GO:0030897	HOPS complex	0.49589347	1.140779039
GO:0009434	microtubule-based flagellum	0.94221414	1.140857646
ENSG00000176788	BASP1 subnetwork	0.49661659	1.140922503
REACTOME_THROMBOXANE_	REACTOME_THROMBOXANE_SIGNALLING_THROUGH_TP_I	0.94220936	1.140953299
REACTOME_RNA_POLYMERAS	REACTOME_RNA_POLYMERASE_I_RNA_POLYMERASE_III_A	0.49654757	1.140983225
MP:0011094	complete embryonic lethality before implantation	0.94215438	1.140990273
ENSG00000130638	ATXN10 subnetwork	0.49671788	1.141001553
MP:0001196	shiny skin	0.49683125	1.141034001
ENSG00000173534	ENSG00000173534 subnetwork	0.94210316	1.141060797
ENSG00000124575	HIST1H1D subnetwork	0.49652968	1.141129408
ENSG00000170847	ENSG00000170847 subnetwork	0.94210316	1.141156491
GO:0021988	olfactory lobe development	0.94203222	1.141176717
MP:0001729	impaired embryo implantation	0.49696677	1.141237193
MP:0009886	failure of palatal shelf elevation	0.94186539	1.141245805
ENSG00000173482	PTPRM subnetwork	0.94197867	1.141271705
GO:0021772	olfactory bulb development	0.94203222	1.141272438
MP:0002981	increased liver weight	0.49644375	1.141282051
MP:0003048	abnormal cervical vertebrae morphology	0.94183482	1.141282826
GO:0007369	gastrulation	0.49652885	1.141306712
ENSG00000181191	PJA1 subnetwork	0.49636785	1.141311781
GO:0051180	vitamin transport	0.94182588	1.141374392
ENSG00000170043	TRAPPC1 subnetwork	0.49629671	1.141380382
GO:0060992	response to fungicide	0.94177409	1.141403038
ENSG00000171793	CTPS subnetwork	0.94171218	1.141427492
GO:0072215	regulation of metanephros development	0.49625475	1.141464552
MP:0000852	small cerebellum	0.94170053	1.141514897
ENSG00000042753	AP2S1 subnetwork	0.49714892	1.141525687
ENSG00000088832	FKBP1A subnetwork	0.94169123	1.14161071
GO:0004576	oligosaccharyl transferase activity	0.94168919	1.141698145
ENSG00000085733	CTTN subnetwork	0.94165377	1.141773002
REACTOME_RNA_POLYMERAS	REACTOME_RNA_POLYMERASE_III_TRANSCRIPTION_INITIA	0.49736091	1.141783054
KEGG_GAP_JUNCTION	KEGG_GAP_JUNCTION	0.94164934	1.141860465
GO:0005768	endosome	0.49817289	1.141933984
GO:0034375	high-density lipoprotein particle remodeling	0.94164882	1.141956339
ENSG00000204133	ENSG00000204133 subnetwork	0.94159154	1.141972458
ENSG00000111875	ASF1A subnetwork	0.49814013	1.142025728
ENSG00000143373	ZNF687 subnetwork	0.4980652	1.142039994
ENSG00000167977	KCTD5 subnetwork	0.49761378	1.142049333
GO:0010463	mesenchymal cell proliferation	0.94158874	1.142068357
GO:0016755	transferase activity, transferring amino-acyl groups	0.94151646	1.14207189
GO:0090200	positive regulation of release of cytochrome c from mitoch	0.49793049	1.14209955
GO:0071715	icosanoid transport	0.94147314	1.142125819
MP:0004067	abnormal trabecula carnea morphology	0.49803467	1.142155039

GO:0001938	positive regulation of endothelial cell proliferation	0.94143766	1.142171357
ENSG00000126217	MCF2L subnetwork	0.49787606	1.142206886
ENSG00000167751	KLK2 subnetwork	0.49759746	1.142211016
MP:0005534	decreased body temperature	0.94141869	1.142246304
ENSG00000023608	SNAPC1 subnetwork	0.49782904	1.142267721
GO:0033572	transferrin transport	0.94141249	1.142338066
GO:0015682	ferric iron transport	0.94141249	1.142434045
ENSG00000168028	RPSA subnetwork	0.49876472	1.142434567
GO:0006397	mRNA processing	0.49901998	1.14245356
ENSG00000105447	GRWD1 subnetwork	0.49908242	1.142462467
GO:0009068	aspartate family amino acid catabolic process	0.49999676	1.142483004
ENSG00000149636	DSN1 subnetwork	0.94137986	1.14250063
GO:0006638	neutral lipid metabolic process	0.49863484	1.142556158
ENSG00000090539	CHRD subnetwork	0.49891499	1.142575101
ENSG00000121989	ACVR2A subnetwork	0.49899437	1.14257625
GO:0051225	spindle assembly	0.49873616	1.142580545
ENSG00000167842	MIS12 subnetwork	0.94137986	1.142596639
GO:0006312	mitotic recombination	0.49928202	1.142634999
MP:0001680	abnormal mesoderm development	0.49923723	1.142641597
ENSG00000168522	FNTA subnetwork	0.49999215	1.142651831
GO:0035270	endocrine system development	0.94137098	1.142680057
GO:0070742	C2H2 zinc finger domain binding	0.49859452	1.142686706
ENSG00000108671	PSMD11 subnetwork	0.49991384	1.142689335
GO:0014911	positive regulation of smooth muscle cell migration	0.94124802	1.142733462
GO:0007005	mitochondrion organization	0.94134305	1.14274668
GO:0044304	main axon	0.94120805	1.142795898
ENSG00000166451	CENPN subnetwork	0.94113836	1.142807902
MP:0000733	abnormal muscle development	0.94099249	1.142836122
GO:0031396	regulation of protein ubiquitination	0.94082593	1.142843327
ENSG00000181852	RNF41 subnetwork	0.49980331	1.142849412
ENSG00000117594	HSD11B1 subnetwork	0.49989211	1.142850518
GO:0001540	beta-amyloid binding	0.94108215	1.14285354
MP:0003446	renal hypoplasia	0.94096761	1.142898587
GO:0006940	regulation of smooth muscle contraction	0.94077588	1.142901598
ENSG00000174903	RAB1B subnetwork	0.49972491	1.142910159
MP:0010027	increased liver cholesterol level	0.94074431	1.14296829
GO:2000379	positive regulation of reactive oxygen species metabolic process	0.94006523	1.142993014
GO:0006835	dicarboxylic acid transport	0.94042969	1.142995372
ENSG00000159377	PSMB4 subnetwork	0.50029711	1.143001699
ENSG00000076248	UNG subnetwork	0.94072783	1.143047611
ENSG00000146731	CCT6A subnetwork	0.49969076	1.143055985
ENSG00000185737	NRG3 subnetwork	0.94005385	1.143076599
ENSG00000131269	ABCB7 subnetwork	0.94026044	1.143077765
ENSG00000184185	KCNJ12 subnetwork	0.94042286	1.143083137
ENSG00000164692	COL1A2 subnetwork	0.94059825	1.143101127
ENSG00000170178	HOXD12 subnetwork	0.49960226	1.143101315
ENSG00000121440	PDZRN3 subnetwork	0.94072777	1.143143771
ENSG00000138413	IDH1 subnetwork	0.94041023	1.143154086
GO:0070372	regulation of ERK1 and ERK2 cascade	0.94004769	1.143168617
GO:0048199	vesicle targeting, to, from or within Golgi	0.94002155	1.143214346
ENSG00000145723	GIN1 subnetwork	0.49958105	1.143216275
ENSG00000172680	MOS subnetwork	0.93995248	1.143272712
ENSG00000106799	TGFBR1 subnetwork	0.93993038	1.143335298

MP:0005044	sepsis	0.93989477	1.143397895
GO:0071599	otic vesicle development	0.93976205	1.14342205
GO:0072595	maintenance of protein localization to organelle	0.93964731	1.143454637
ENSG00000169306	IL1RAPL1 subnetwork	0.93972817	1.143463612
MP:0003425	abnormal optic vesicle formation	0.93988736	1.143485767
ENSG00000161800	RACGAP1 subnetwork	0.93964724	1.143550969
GO:0021872	forebrain generation of neurons	0.93962434	1.143622041
GO:0031233	intrinsic to external side of plasma membrane	0.93956155	1.143646781
MP:0003675	kidney cysts	0.93950641	1.143696806
REACTOME_RETROGRADE_NEUR	REACTOME_RETROGRADE_NEUROTROPHIN_SIGNALING	0.93949755	1.143788977
GO:0051983	regulation of chromosome segregation	0.93947979	1.143864307
MP:0000410	waved hair	0.93937092	1.143939138
ENSG00000016082	ISL1 subnetwork	0.93946803	1.143943864
GO:0043043	peptide biosynthetic process	0.93932999	1.143993424
GO:0002009	morphogenesis of an epithelium	0.50102105	1.14403181
GO:0055088	lipid homeostasis	0.93928351	1.144039288
MP:0009431	decreased fetal weight	0.50107615	1.144040451
REACTOME_ISG15_ANTIVIRAL	REACTOME_ISG15_ANTIVIRAL_MECHANISM	0.50095297	1.144054054
KEGG_PPAR_SIGNALING_PATH	KEGG_PPAR_SIGNALING_PATHWAY	0.9392099	1.144135256
ENSG00000170486	KRT72 subnetwork	0.9392764	1.14413575
GO:0060713	labyrinthine layer morphogenesis	0.93919812	1.144227526
REACTOME_ANTIVIRAL_MECH	REACTOME_ANTIVIRAL_MECHANISM_BY_IFN:STIMULATED	0.50095297	1.144230769
GO:0046928	regulation of neurotransmitter secretion	0.93919182	1.144319811
ENSG00000153944	MSI2 subnetwork	0.93917958	1.144407895
GO:0014044	Schwann cell development	0.9391692	1.14448334
MP:0004892	increased adiponectin level	0.93915519	1.144563017
MP:0009749	enhanced behavioral response to addictive substance	0.93914935	1.144651143
GO:0090087	regulation of peptide transport	0.93914596	1.144747722
GO:0007271	synaptic transmission, cholinergic	0.93904235	1.144827004
GO:0070301	cellular response to hydrogen peroxide	0.93838094	1.14483574
GO:0002791	regulation of peptide secretion	0.93914596	1.144844317
GO:0006541	glutamine metabolic process	0.93883643	1.144859458
GO:0002053	positive regulation of mesenchymal cell proliferation	0.93890483	1.144859892
REACTOME_M_PHASE	REACTOME_M_PHASE	0.93897411	1.144864546
GO:0019208	phosphatase regulator activity	0.93830015	1.144864865
GO:0051150	regulation of smooth muscle cell differentiation	0.93819665	1.1449358
ENSG00000179715	FAM113B subnetwork	0.93876256	1.144938793
GO:0050997	quaternary ammonium group binding	0.93852241	1.144941733
GO:0015697	quaternary ammonium group transport	0.93883007	1.144951882
ENSG00000196290	NIF3L1 subnetwork	0.93829903	1.144961568
GO:0043168	anion binding	0.93873254	1.14500591
GO:0033205	cell cycle cytokinesis	0.93818708	1.145024077
GO:0060711	labyrinthine layer development	0.93871124	1.145056151
ENSG00000060237	WNK1 subnetwork	0.50152905	1.145075641
ENSG00000182132	KCNIP1 subnetwork	0.93817872	1.145099696
ENSG00000104164	PLDN subnetwork	0.93810602	1.14513308
ENSG00000089154	GCN1L1 subnetwork	0.50178706	1.145139639
GO:0030219	megakaryocyte differentiation	0.50164287	1.145184442
MP:0002428	abnormal semicircular canal morphology	0.93809321	1.145204496
GO:0046902	regulation of mitochondrial membrane permeability	0.50172199	1.145208333
ENSG00000077080	ACTL6B subnetwork	0.50260571	1.145216454
ENSG00000176658	MYO1D subnetwork	0.50271681	1.145263401
GO:0042953	lipoprotein transport	0.93808493	1.1452886

GO:0071813	lipoprotein particle binding	0.9377045	1.145320426
ENSG00000105997	HOXA3 subnetwork	0.50258796	1.145331279
MP:0003068	enlarged kidney	0.50225357	1.145351526
ENSG00000130707	ASS1 subnetwork	0.93807057	1.145355815
ENSG00000167978	SRRM2 subnetwork	0.50281165	1.145356538
GO:0043687	post-translational protein modification	0.50217237	1.14536623
ENSG00000118094	TREH subnetwork	0.50364796	1.145379766
MP:0001973	increased thermal nociceptive threshold	0.93795791	1.145388842
ENSG00000123219	CENPK subnetwork	0.93801778	1.145406136
GO:0032371	regulation of sterol transport	0.503529	1.145409105
GO:0071814	protein-lipid complex binding	0.9377045	1.145417266
GO:0000288	nuclear-transcribed mRNA catabolic process, deadenylation	0.50213838	1.145427205
ENSG00000126522	ASL subnetwork	0.50316151	1.145444051
GO:0045933	positive regulation of muscle contraction	0.93793233	1.145464536
ENSG00000137764	MAP2K5 subnetwork	0.50294408	1.145465045
REACTOME_PROSTANOID_ME	REACTOME_PROSTANOID_METABOLISM	0.5025702	1.145469256
GO:0004930	G-protein coupled receptor activity	0.93766354	1.14547607
GO:0060768	regulation of epithelial cell proliferation involved in prostat	0.93761283	1.145522199
ENSG00000107242	PIP5K1B subnetwork	0.50364452	1.145555897
GO:0045682	regulation of epidermis development	0.50379465	1.145580323
GO:0032374	regulation of cholesterol transport	0.503529	1.145585295
ENSG00000116455	WDR77 subnetwork	0.50315017	1.145589594
ENSG00000164751	PEX2 subnetwork	0.50212327	1.145596175
GO:0060324	face development	0.93760245	1.145606394
REACTOME_SIGNALING_BY_C	REACTOME_SIGNALING_BY_CONSTITUTIVELY_ACTIVE_EGF	0.50309213	1.145619707
ENSG00000105514	RAB3D subnetwork	0.50332352	1.14562173
ENSG00000146143	ENSG00000146143 subnetwork	0.50204441	1.145634064
ENSG00000184678	HIST2H2BE subnetwork	0.50255158	1.145638101
MP:0005543	corneal thinning	0.93713481	1.145642241
ENSG00000112159	MDN1 subnetwork	0.50442248	1.145647167
ENSG00000105429	MEGF8 subnetwork	0.5034779	1.145684615
GO:0015749	monosaccharide transport	0.9375888	1.145694832
ENSG00000197275	RAD54B subnetwork	0.50342016	1.145699338
KEGG_TASTE_TRANSDUCTION	KEGG_TASTE_TRANSDUCTION	0.93712939	1.145734958
GO:0046661	male sex differentiation	0.50252519	1.145737629
MP:0002953	thick ventricular wall	0.50430975	1.145745661
GO:0019827	stem cell maintenance	0.93739068	1.145769882
MP:0000441	increased cranium width	0.93636573	1.145773694
GO:0007588	excretion	0.93758114	1.145787515
REACTOME_SEROTONIN_NEUF	REACTOME_SEROTONIN_NEUROTRANSMITTER_RELEASE_C	0.93679042	1.14580088
MP:0008279	arrest of spermiogenesis	0.93644258	1.145807927
GO:0009954	proximal/distal pattern formation	0.93705508	1.145814642
GO:0030128	clathrin coat of endocytic vesicle	0.93712549	1.145814997
GO:0051905	establishment of pigment granule localization	0.93734267	1.145816059
REACTOME_PROCESSING_OF_	REACTOME_PROCESSING_OF_CAPPED_INTRON:CONTAININ	0.50441959	1.145823096
GO:0060602	branch elongation of an epithelium	0.93753894	1.145837916
REACTOME_CYTOCHROME_P4	REACTOME_CYTOCHROME_P450_: _ARRANGED_BY_SUBST	0.50462277	1.14583973
GO:0008584	male gonad development	0.50426271	1.145844854
ENSG00000130772	MED18 subnetwork	0.50402221	1.145850622
GO:0005868	cytoplasmic dynein complex	0.93700212	1.145852379
ENSG00000165775	FUNDC2 subnetwork	0.93658214	1.145854856
GO:0008242	omega peptidase activity	0.93635691	1.145862273
REACTOME_DOPAMINE_NEUR	REACTOME_DOPAMINE_NEUROTRANSMITTER_RELEASE_C	0.93679042	1.145897892

MP:0004021	abnormal rod electrophysiology	0.93697631	1.145923982
GO:0030315	T-tubule	0.93632871	1.145925455
GO:0071222	cellular response to lipopolysaccharide	0.50397245	1.145926837
ENSG00000136108	CKAP2 subnetwork	0.93676333	1.145965284
ENSG00000175084	DES subnetwork	0.93631311	1.146009827
ENSG00000119487	MAPKAP1 subnetwork	0.50425516	1.146013212
ENSG00000171885	AQP4 subnetwork	0.50421468	1.146074063
MP:0002098	abnormal vibrissa morphology	0.93629277	1.14609845
ENSG00000090470	PDCD7 subnetwork	0.93626691	1.146178614
GO:0090004	positive regulation of establishment of protein localization	0.93510767	1.1461868
ENSG00000117697	NSL1 subnetwork	0.93528549	1.146187447
MP:0001392	abnormal locomotor behavior	0.93619034	1.146191001
MP:0002912	abnormal excitatory postsynaptic potential	0.93464024	1.146248515
GO:0006261	DNA-dependent DNA replication	0.50487786	1.146254797
GO:0072028	nephron morphogenesis	0.93526321	1.146254983
GO:0002062	chondrocyte differentiation	0.93449006	1.146256367
MP:0001714	absent trophoblast giant cells	0.93618559	1.146279661
GO:0042401	cellular biogenic amine biosynthetic process	0.93509873	1.1462798
ENSG00000197858	GPAA1 subnetwork	0.93456102	1.146282149
ENSG00000162368	CMPK1 subnetwork	0.93440971	1.146294252
GO:0030673	axolemma	0.93613916	1.146313247
ENSG00000070371	CLTCL1 subnetwork	0.93478989	1.146316727
GO:0043200	response to amino acid stimulus	0.93589582	1.146320787
GO:0016197	endosomal transport	0.93508803	1.146351604
ENSG00000134602	ENSG00000134602 subnetwork	0.93439941	1.146374597
ENSG00000150672	DLG2 subnetwork	0.93610691	1.146376504
GO:0019321	pentose metabolic process	0.93586035	1.146384061
GO:0015114	phosphate ion transmembrane transporter activity	0.93496864	1.146389172
REACTOME_TRANSPORT_OF_ORGANIC_ANIONS	REACTOME_TRANSPORT_OF_ORGANIC_ANIONS	0.93558563	1.14642524
ENSG00000184486	POU3F2 subnetwork	0.93568833	1.146425543
GO:0071436	sodium ion export	0.93581226	1.146438867
GO:0031102	neuron projection regeneration	0.9350782	1.14644039
ENSG00000119929	CUTC subnetwork	0.93438043	1.146454955
MP:0009832	abnormal sperm mitochondrial sheath morphology	0.93609661	1.146456726
GO:0022626	cytosolic ribosome	0.934318	1.146484375
GO:0019888	protein phosphatase regulator activity	0.93577499	1.146485203
GO:0008202	steroid metabolic process	0.50521975	1.146548021
ENSG00000172201	ID4 subnetwork	0.93413905	1.146559925
MP:0002641	anisopoikilocytosis	0.93431724	1.146581741
ENSG00000134109	EDEM1 subnetwork	0.93409768	1.146614849
MP:0004132	absent embryonic cilia	0.50510687	1.146623696
GO:0035051	cardiac cell differentiation	0.93406072	1.146661286
ENSG00000168487	BMP1 subnetwork	0.50547466	1.146671779
GO:0032309	icosanoid secretion	0.93431267	1.146679123
GO:0051457	maintenance of protein location in nucleus	0.9340371	1.146703483
MP:0003864	abnormal midbrain development	0.50521063	1.146708608
GO:0019748	secondary metabolic process	0.93394364	1.146715949
GO:0070918	production of small RNA involved in gene silencing by RNA	0.93381867	1.146749384
ENSG00000153044	CENPH subnetwork	0.93368803	1.146770081
GO:0000049	tRNA binding	0.5054491	1.146778647
ENSG00000154310	TNIK subnetwork	0.93362258	1.146808058
ENSG00000008277	ADAM22 subnetwork	0.93393894	1.146809143
GO:0031050	dsRNA fragmentation	0.93381867	1.146846847

GO:0010008	endosome membrane	0.93360322	1.146892799
GO:0051310	metaphase plate congression	0.93351748	1.146896786
ENSG00000141696	LEPREL4 subnetwork	0.50578906	1.146941122
ENSG00000100151	PICK1 subnetwork	0.93349284	1.146977298
ENSG00000142627	EPHA2 subnetwork	0.50591062	1.14698038
GO:0052742	phosphatidylinositol kinase activity	0.50619709	1.147027731
GO:0051428	peptide hormone receptor binding	0.93328343	1.147031808
ENSG00000173171	MTX1 subnetwork	0.50603699	1.147034483
GO:0042301	phosphate ion binding	0.51105636	1.14704142
GO:0046883	regulation of hormone secretion	0.93347194	1.147045068
ENSG00000196154	S100A4 subnetwork	0.93323773	1.147065578
ENSG00000196236	XPNPEP3 subnetwork	0.50614516	1.147065584
GO:0030811	regulation of nucleotide catabolic process	0.51089995	1.14708561
GO:0031984	organelle subcompartment	0.50578668	1.147109339
ENSG00000152214	RIT2 subnetwork	0.93344375	1.147117102
ENSG00000183431	SF3A3 subnetwork	0.51103127	1.147132018
GO:0021697	cerebellar cortex formation	0.50590789	1.147156216
ENSG00000160271	RALGDS subnetwork	0.93323042	1.147163151
GO:0033121	regulation of purine nucleotide catabolic process	0.51089995	1.147259754
REACTOME_SPHINGOLIPID_M	REACTOME_SPHINGOLIPID_METABOLISM	0.93304064	1.147260274
MP:0010465	aberrant origin of the right subclavian artery	0.93321503	1.14726074
ENSG00000197903	HIST1H2BK subnetwork	0.51102474	1.147268174
MP:0000846	abnormal medulla oblongata morphology	0.93315055	1.147290284
ENSG00000152253	SPC25 subnetwork	0.93300042	1.147302587
MP:0008114	abnormal Kupffer cell morphology	0.50643183	1.147342218
ENSG00000127946	HIP1 subnetwork	0.93297643	1.147378946
ENSG00000172766	NAA16 subnetwork	0.50708964	1.147383721
GO:0019239	deaminase activity	0.50748021	1.147393365
ENSG00000179348	GATA2 subnetwork	0.5108821	1.147403583
MP:0010263	total cataracts	0.93291731	1.147408511
GO:0007431	salivary gland development	0.5108423	1.147418375
ENSG00000138083	SIX3 subnetwork	0.93287851	1.14746787
ENSG00000136153	LMO7 subnetwork	0.50744628	1.147477064
ENSG00000116251	RPL22 subnetwork	0.50676631	1.147488899
ENSG00000130294	KIF1A subnetwork	0.50701038	1.147513009
GO:0046849	bone remodeling	0.50672432	1.147534456
GO:0031581	hemidesmosome assembly	0.50721011	1.147537097
ENSG00000123737	EXOSC9 subnetwork	0.50684827	1.147550521
REACTOME_SYNTHESIS_OF_V	REACTOME_SYNTHESIS_OF_VERY_LONG:CHAIN_FATTY_AC	0.51034783	1.147552448
GO:0034121	regulation of toll-like receptor signaling pathway	0.93285412	1.147557031
GO:0006766	vitamin metabolic process	0.5070866	1.147559296
MP:0000035	abnormal membranous labyrinth morphology	0.51083315	1.147577461
REACTOME_PEROXISOMAL_LI	REACTOME_PEROXISOMAL_LIPID_METABOLISM	0.50739812	1.147591375
ENSG00000161547	SRSF2 subnetwork	0.50668022	1.147618318
MP:0003830	abnormal testis development	0.51027296	1.147620496
MP:0003868	abnormal feces composition	0.93274333	1.147624723
REACTOME_BILE_ACID_AND_E	REACTOME_BILE_ACID_AND_BILE_SALT_METABOLISM	0.510774	1.14764545
ENSG00000111052	LIN7A subnetwork	0.93285274	1.14765472
ENSG00000115275	MOGS subnetwork	0.93269519	1.147658578
ENSG00000163631	ALB subnetwork	0.51014086	1.147665399
ENSG00000103089	FA2H subnetwork	0.5069858	1.147665697
GO:0022602	ovulation cycle process	0.51160637	1.147679709
ENSG00000172340	SUCLG2 subnetwork	0.51048854	1.147697218

GO:0042454	ribonucleoside catabolic process	0.50767843	1.147714766
ENSG00000136146	MED4 subnetwork	0.51024294	1.147718978
REACTOME_MRNA_DECAY_BY	REACTOME_MRNA_DECAY_BY_3_TO_5_EXORIBONUCLEAS	0.93259413	1.147730563
MP:0003702	abnormal chromosome morphology	0.51073898	1.14773625
GO:0072657	protein localization in membrane	0.93268212	1.147739271
GO:0043015	gamma-tubulin binding	0.93249716	1.147747402
ENSG00000185736	ADARB2 subnetwork	0.51059326	1.14775076
GO:0032092	positive regulation of protein binding	0.50739655	1.147759254
ENSG00000107447	DNTT subnetwork	0.51068946	1.147804285
GO:0010951	negative regulation of endopeptidase activity	0.51013753	1.147824764
ENSG00000180228	PRKRA subnetwork	0.51159103	1.147831033
MP:0008439	abnormal cortical plate morphology	0.93248264	1.147845158
MP:0005464	abnormal platelet physiology	0.50843952	1.147893451
ENSG00000105176	URI1 subnetwork	0.5078318	1.147906159
ENSG00000157077	ZFYVE9 subnetwork	0.5078922	1.147906479
MP:0004321	short sternum	0.51151645	1.147906553
GO:0019319	hexose biosynthetic process	0.50810097	1.147914757
MP:0005030	absent amnion	0.93246993	1.147925894
ENSG00000169976	SF3B5 subnetwork	0.50801253	1.147937357
MP:0000929	open neural tube	0.51011497	1.147938536
ENSG00000136271	DDX56 subnetwork	0.50854882	1.147977717
GO:0005179	hormone activity	0.93245044	1.148010904
ENSG00000106829	TLE4 subnetwork	0.93238867	1.148036292
MP:0002584	small ectoplacental cone	0.50894961	1.148040262
ENSG00000124222	STX16 subnetwork	0.51008177	1.148044735
ENSG00000127922	SHFM1 subnetwork	0.50843137	1.148053435
REACTOME_POST:TRANSLATIC	REACTOME_POST:TRANSLATIONAL_MODIFICATION_SYNT	0.51252407	1.14805421
ENSG00000111987	ENSG00000111987 subnetwork	0.50953819	1.148073115
GO:0006613	cotranslational protein targeting to membrane	0.93235228	1.148112806
ENSG00000160307	S100B subnetwork	0.51247948	1.148122066
ENSG00000150938	CRIM1 subnetwork	0.50891554	1.148123856
GO:0008105	asymmetric protein localization	0.51240187	1.148174796
ENSG00000105323	HNRNPUL1 subnetwork	0.50871096	1.148176408
REACTOME_G1_PHASE	REACTOME_G1_PHASE	0.51007008	1.148181403
GO:0007043	cell-cell junction assembly	0.50887375	1.148207475
MP:0006346	small branchial arch	0.93235172	1.148210634
GO:0032934	sterol binding	0.50842595	1.148213468
ENSG00000169249	ZRSR2 subnetwork	0.50827645	1.148220559
ENSG00000112081	SRSF3 subnetwork	0.51230477	1.148227541
GO:0000245	spliceosomal complex assembly	0.51271986	1.148228615
ENSG00000104765	BNIP3L subnetwork	0.93211804	1.148244268
MP:0011095	complete embryonic lethality between implantation and pl	0.51303965	1.148244818
ENSG00000172850	LSM2 subnetwork	0.50953819	1.14824802
MP:0008584	photoreceptor outer segment degeneration	0.93130321	1.148255715
GO:0002532	production of molecular mediator involved in inflammatory	0.51339351	1.148261264
ENSG00000150093	ITGB1 subnetwork	0.51333073	1.148268562
ENSG00000136169	SETDB2 subnetwork	0.93231038	1.148270132
GO:0043623	cellular protein complex assembly	0.50834146	1.148274282
MP:0001554	increased circulating free fatty acid level	0.51319742	1.148283164
ENSG00000163828	ENSG00000163828 subnetwork	0.51327148	1.148283424
GO:0032107	regulation of response to nutrient levels	0.93191511	1.148303495
MP:0009247	meteorism	0.93199405	1.148312164
MP:0010025	decreased total body fat amount	0.51314031	1.148313162

ENSG00000043355	ZIC2 subnetwork	0.93209441	1.148320832
ENSG00000115840	SLC25A12 subnetwork	0.93129441	1.148345133
GO:0005581	collagen	0.93229391	1.148346685
REACTOME_CYCLIN_D_ASSOCI	REACTOME_CYCLIN_D_ASSOCIATED_EVENTS_IN_G1	0.51007008	1.148356164
MP:0009937	abnormal neuron differentiation	0.93120739	1.148357789
ENSG00000185313	SCN10A subnetwork	0.50886225	1.14835978
GO:0045444	fat cell differentiation	0.51302821	1.148388317
ENSG00000101442	ACTR5 subnetwork	0.50944258	1.148392258
ENSG00000196975	ANXA4 subnetwork	0.50915853	1.148398902
GO:0032104	regulation of response to extracellular stimulus	0.93191511	1.148401398
MP:0002764	short tibia	0.51229981	1.148401515
ENSG00000141252	VPS53 subnetwork	0.5100218	1.148401583
MP:0002780	decreased circulating testosterone level	0.51225508	1.14840885
ENSG00000120256	LRP11 subnetwork	0.51197462	1.148415466
ENSG00000204392	LSM2 subnetwork	0.50953819	1.148422977
GO:0034698	response to gonadotropin stimulus	0.5129162	1.148425674
GO:0010464	regulation of mesenchymal cell proliferation	0.93158605	1.148434968
MP:0005358	abnormal incisor morphology	0.93188227	1.148448158
ENSG00000109472	CPE subnetwork	0.93120452	1.148455763
GO:0032642	regulation of chemokine production	0.51298441	1.148463751
GO:0043525	positive regulation of neuron apoptotic process	0.51205792	1.14848393
GO:0005952	cAMP-dependent protein kinase complex	0.50998618	1.148492692
ENSG00000162624	LHX8 subnetwork	0.50941403	1.148498704
ENSG00000169155	ZBTB43 subnetwork	0.93185334	1.148503454
GO:0050000	chromosome localization	0.93116492	1.148511092
MP:0002674	abnormal sperm motility	0.51358715	1.148526077
GO:0070491	repressing transcription factor binding	0.51216847	1.148544793
ENSG00000177425	PAWR subnetwork	0.50996558	1.148553373
REACTOME_PEPTIDE_LIGAND:	REACTOME_PEPTIDE_LIGAND_BINDING_RECEPTORS	0.5122275	1.148567748
GO:0006826	iron ion transport	0.93184365	1.148584342
ENSG00000160201	U2AF1 subnetwork	0.51368707	1.148594317
GO:0051402	neuron apoptotic process	0.93105399	1.148596177
GO:0051303	establishment of chromosome localization	0.93116492	1.148609096
ENSG00000165733	BMS1 subnetwork	0.50938027	1.148620427
ENSG00000134138	MEIS2 subnetwork	0.93103887	1.148677136
GO:0030036	actin cytoskeleton organization	0.50932964	1.148681201
GO:0007160	cell-matrix adhesion	0.50996489	1.148720682
GO:0046134	pyrimidine nucleoside biosynthetic process	0.93103782	1.148775179
GO:0015758	glucose transport	0.93096162	1.148796415
GO:0001657	ureteric bud development	0.93082974	1.148830359
GO:0070717	poly-purine tract binding	0.51508459	1.148876828
GO:0022604	regulation of cell morphogenesis	0.93079594	1.148885758
GO:0008645	hexose transport	0.93096162	1.148894485
ENSG00000136531	SCN2A subnetwork	0.93025103	1.148936261
GO:0030072	peptide hormone secretion	0.93030649	1.148944895
MP:0001436	abnormal suckling behavior	0.93078499	1.148966783
ENSG00000137486	ARRB1 subnetwork	0.51505198	1.148982207
GO:0009250	glucan biosynthetic process	0.93021149	1.148995984
GO:2000243	positive regulation of reproductive process	0.51487127	1.149034545
MP:0001852	conjunctivitis	0.5150184	1.149034836
MP:0003606	kidney failure	0.51435088	1.149041075
MP:0002563	shortened circadian period	0.93078076	1.149052092
REACTOME_DEADENYLATION:	REACTOME_DEADENYLATION_DEPENDENT_MRNA_DECAY	0.51443786	1.149056319

ENSG00000101452	DHX35 subnetwork	0.93013684	1.149077002
GO:0005978	glycogen biosynthetic process	0.93021149	1.149094172
GO:0050660	flavin adenine dinucleotide binding	0.51452262	1.149094203
ENSG00000125991	ERGIC3 subnetwork	0.51498581	1.149117647
MP:0001501	abnormal sleep pattern	0.93053054	1.149124381
GO:0050770	regulation of axonogenesis	0.93077126	1.149145956
GO:0040012	regulation of locomotion	0.93000093	1.1491495
GO:0006220	pyrimidine nucleotide metabolic process	0.93070163	1.149154424
ENSG00000136875	PRPF4 subnetwork	0.51403885	1.149161251
GO:0018202	peptidyl-histidine modification	0.93012938	1.14917094
GO:0043508	negative regulation of JUN kinase activity	0.93063584	1.149175707
MP:0004852	decreased testis weight	0.51476069	1.149185152
GO:0005840	ribosome	0.51485628	1.149185275
ENSG00000198467	TPM2 subnetwork	0.51433655	1.149191965
MP:0002176	increased brain weight	0.9299817	1.149239186
GO:0051051	negative regulation of transport	0.51466746	1.14925283
MP:0001958	emphysema	0.51473724	1.149268035
GO:0042033	chemokine biosynthetic process	0.51431266	1.14929003
GO:0002448	mast cell mediated immunity	0.92994858	1.149294691
ENSG00000176406	RIMS2 subnetwork	0.92979078	1.149298846
REACTOME_STRIATED_MUSCL	REACTOME_STRIATED_MUSCLE_CONTRACTION	0.92962575	1.149307278
GO:0061098	positive regulation of protein tyrosine kinase activity	0.92987835	1.149311731
MP:0002841	impaired skeletal muscle contractility	0.51425868	1.149357909
ENSG00000133935	C14orf1 subnetwork	0.92976633	1.149367197
GO:0002438	acute inflammatory response to antigenic stimulus	0.51539874	1.149374435
REACTOME_IOTROPIC_ACT	REACTOME_IOTROPIC_ACTIVITY_OF_KAINATE_RECEPTC	0.92960412	1.149384194
ENSG00000120129	DUSP1 subnetwork	0.5142195	1.149388033
REACTOME_ACTIVATION_OF_	REACTOME_ACTIVATION_OF_CA:PERMEABLE_KAINATE_RE	0.92960412	1.149482508
GO:0046324	regulation of glucose import	0.92957331	1.149546621
MP:0004184	abnormal baroreceptor physiology	0.92954212	1.149606468
GO:0071359	cellular response to dsRNA	0.92949441	1.149636379
GO:0005529	GO:0005529	0.92926697	1.149644844
MP:0011104	partial embryonic lethality before implantation	0.92941505	1.149644905
ENSG00000138835	RGS3 subnetwork	0.92931844	1.149649153
ENSG00000117395	EBNA1BP2 subnetwork	0.51559254	1.149653353
GO:0048706	embryonic skeletal system development	0.92920365	1.149696166
ENSG00000086065	CHMP5 subnetwork	0.92886893	1.149708904
ENSG00000172354	GNB2 subnetwork	0.92916914	1.149738937
GO:0016540	protein autoprocessing	0.92912186	1.149781715
ENSG00000085840	ORC1 subnetwork	0.9288516	1.149794503
GO:0030259	lipid glycosylation	0.92882671	1.149858709
ENSG00000107404	DVL1 subnetwork	0.92910036	1.149875867
GO:0016126	sterol biosynthetic process	0.92879922	1.149931489
ENSG00000167513	CDT1 subnetwork	0.92875482	1.149974306
ENSG00000154162	CDH12 subnetwork	0.92872906	1.150034261
MP:0003031	acidosis	0.92870022	1.150115642
GO:0015872	dopamine transport	0.92849384	1.150171365
GO:0055012	ventricular cardiac muscle cell differentiation	0.92867761	1.150184186
ENSG00000127948	POR subnetwork	0.92862061	1.150227039
REACTOME_PROCESSING_OF_	REACTOME_PROCESSING_OF_CAPPED_INTRONLESS_PRE:N	0.92847367	1.150235647
GO:0048820	hair follicle maturation	0.92835508	1.15027854
REACTOME_POST:ELONGATIO	REACTOME_POST:ELONGATION_PROCESSING_OF_INTRON	0.92847367	1.150334219
ENSG00000116954	RRAGC subnetwork	0.9283197	1.150338562

GO:0050766	positive regulation of phagocytosis	0.92826535	1.150390022
ENSG00000122484	RPAP2 subnetwork	0.51686837	1.150436353
ENSG00000146425	DYNLT1 subnetwork	0.92787959	1.150463082
ENSG00000047579	DTNBP1 subnetwork	0.51661083	1.150466657
GO:0044440	endosomal part	0.92826147	1.150480069
MP:0010736	abnormal extraembryonic ectoderm morphology	0.92781884	1.150480274
ENSG00000114812	VIPR1 subnetwork	0.92804695	1.150488767
GO:0006818	hydrogen transport	0.5168103	1.150511663
GO:0021696	cerebellar cortex morphogenesis	0.51614294	1.15051228
GO:0002886	regulation of myeloid leukocyte mediated immunity	0.92822127	1.150527263
MP:0003562	abnormal pancreatic beta cell physiology	0.92816142	1.150535883
ENSG00000162236	STX5 subnetwork	0.51624645	1.150564929
GO:0006776	vitamin A metabolic process	0.92781391	1.150578952
MP:0006303	abnormal retinal nerve fiber layer morphology	0.51679217	1.150602047
KEGG_FC_GAMMA_R_MEDIAT	KEGG_FC_GAMMA_R_MEDIATED_PHAGOCYTOSIS	0.5166082	1.150624812
GO:0070613	regulation of protein processing	0.9277943	1.150639046
GO:0071230	cellular response to amino acid stimulus	0.51612111	1.150640446
GO:0046456	icosanoid biosynthetic process	0.51712324	1.150699564
ENSG00000101843	PSMD10 subnetwork	0.51655264	1.150700196
GO:0035137	hindlimb morphogenesis	0.92779259	1.150737754
GO:0035250	UDP-galactosyltransferase activity	0.92771369	1.150746397
MP:0000167	decreased chondrocyte cell number	0.92763955	1.150763621
GO:0005540	hyaluronic acid binding	0.92738529	1.150776691
MP:0004620	cervical vertebral fusion	0.92758209	1.15080659
GO:0005251	delayed rectifier potassium channel activity	0.92753995	1.150849567
GO:0006406	mRNA export from nucleus	0.9273757	1.150854004
KEGG_OOCYTE_MEIOSIS	KEGG_OOCYTE_MEIOSIS	0.51648683	1.150858563
MP:0001131	abnormal ovarian follicle morphology	0.51655151	1.150865964
MP:0000965	abnormal sensory neuron morphology	0.92732637	1.150901288
ENSG00000141503	MINK1 subnetwork	0.92727083	1.150935703
REACTOME_TRANSMEMBRAN	REACTOME_TRANSMEMBRANE_TRANSPORT_OF_SMALL_M	0.92723532	1.151000172
ENSG00000079462	PAFAH1B3 subnetwork	0.92720328	1.151086117
ENSG00000108231	LGI1 subnetwork	0.92718981	1.151159196
GO:0030863	cortical cytoskeleton	0.51745334	1.151203369
GO:0007512	adult heart development	0.9271512	1.15121082
REACTOME_REGULATION_OF	REACTOME_REGULATION_OF_BETA:CELL_DEVELOPMENT	0.51774726	1.15122538
KEGG_GLYCOSAMINOGLYCAN	KEGG_GLYCOSAMINOGLYCAN_BIOSYNTHESIS_CHONDROIT	0.9270781	1.151232394
ENSG00000142875	PRKACB subnetwork	0.5176447	1.151233083
REACTOME_REGULATION_OF	REACTOME_REGULATION_OF_DNA_REPLICATION	0.51758739	1.151293428
ENSG00000178028	DMAP1 subnetwork	0.92707619	1.151331272
ENSG00000034677	RNF19A subnetwork	0.51795268	1.151352773
GO:0050995	negative regulation of lipid catabolic process	0.92702721	1.15137004
MP:0000851	cerebellum hypoplasia	0.92702639	1.151464651
GO:0016831	carboxy-lyase activity	0.51791648	1.151465725
ENSG00000176108	CHMP6 subnetwork	0.92694972	1.151477663
GO:0035725	sodium ion transmembrane transport	0.92689949	1.151516453
ENSG00000211677	ENSG00000211677 subnetwork	0.92689639	1.151611102
ENSG00000211679	ENSG00000211679 subnetwork	0.92689639	1.151710063
REACTOME_ACTIVATION_OF	REACTOME_ACTIVATION_OF_CHAPERONES_BY_ATF6:ALP	0.92684779	1.151731695
MP:0004471	short nasal bone	0.92684059	1.151813494
ENSG00000105509	HAS1 subnetwork	0.92679505	1.15186952
GO:0010390	histone monoubiquitination	0.92677884	1.151955643
ENSG00000181085	MAPK15 subnetwork	0.92620662	1.151986926

GO:0021766	hippocampus development	0.92613737	1.152021505
GO:0016072	rRNA metabolic process	0.51836788	1.152028855
GO:0006665	sphingolipid metabolic process	0.92677175	1.15204608
GO:0002576	platelet degranulation	0.92611509	1.152099105
ENSG00000100554	ATP6V1D subnetwork	0.92673722	1.15210644
GO:0033006	regulation of mast cell activation involved in immune respo	0.92644927	1.152128483
GO:0005905	coated pit	0.92607149	1.152138002
ENSG00000090372	STRN4 subnetwork	0.92637948	1.152154468
GO:0046622	positive regulation of organ growth	0.92600608	1.15218551
ENSG00000137812	CASC5 subnetwork	0.92671829	1.152192605
ENSG00000153207	AHCTF1 subnetwork	0.92593808	1.152220119
GO:0070307	lens fiber cell development	0.9257541	1.152224804
ENSG00000100949	RABGGTA subnetwork	0.92667784	1.152252988
GO:0031103	axon regeneration	0.92589155	1.152267642
ENSG00000163950	SLBP subnetwork	0.92572365	1.152298158
GO:0002063	chondrocyte development	0.92566042	1.152350004
ENSG00000130803	ZNF317 subnetwork	0.51858351	1.152366642
GO:0005788	endoplasmic reticulum lumen	0.92565172	1.152444904
GO:0051000	positive regulation of nitric-oxide synthase activity	0.51881354	1.152508261
ENSG00000145335	SNCA subnetwork	0.92562393	1.152509686
ENSG00000122884	P4HA1 subnetwork	0.51889429	1.152522901
ENSG00000072778	ACADVL subnetwork	0.51876122	1.15253117
GO:0072111	cell proliferation involved in kidney development	0.92561887	1.15260892
ENSG00000198336	MYL4 subnetwork	0.92559316	1.152678033
GO:0009311	oligosaccharide metabolic process	0.92551076	1.15268257
MP:0006117	aortic valve stenosis	0.51875665	1.152689303
ENSG00000005882	PDK2 subnetwork	0.92550105	1.152768926
REACTOME_SHC:MEDIATED_S	REACTOME_SHC:MEDIATED_SIGNALLING	0.92534201	1.152803859
MP:0005479	decreased circulating triiodothyronine level	0.92522089	1.152812958
GO:0051640	organelle localization	0.92530668	1.152842867
GO:0042310	vasoconstriction	0.92548275	1.152859604
ENSG00000100412	ACO2 subnetwork	0.92521902	1.152912287
GO:0071600	otic vesicle morphogenesis	0.92514079	1.152929772
GO:0032839	dendrite cytoplasm	0.92509569	1.152964495
ENSG00000001626	CFTR subnetwork	0.92505911	1.153029389
GO:0006643	membrane lipid metabolic process	0.92503963	1.153098604
ENSG00000115540	MOB4 subnetwork	0.92497413	1.153111801
ENSG00000135828	RNASEL subnetwork	0.92478983	1.153160028
GO:0030194	positive regulation of blood coagulation	0.92474341	1.153203415
ENSG00000103479	RBL2 subnetwork	0.92497147	1.153211207
ENSG00000101444	AHCY subnetwork	0.92492533	1.153276144
MP:0002910	abnormal excitatory postsynaptic currents	0.92473916	1.153294239
GO:0043547	positive regulation of GTPase activity	0.52015883	1.153297856
GO:0032760	positive regulation of tumor necrosis factor production	0.92471707	1.153350582
ENSG00000197697	HIST1H2BE subnetwork	0.52009472	1.153433283
GO:0060351	cartilage development involved in endochondral bone mor	0.51940725	1.153445429
GO:0023058	adaptation of signaling pathway	0.92471337	1.153445748
ENSG00000129214	SHBG subnetwork	0.9240933	1.153543375
GO:0002029	desensitization of G-protein coupled receptor protein signa	0.92471337	1.153545243
ENSG00000120837	NFYB subnetwork	0.5203591	1.153559652
GO:0031571	mitotic cell cycle G1/S transition DNA damage checkpoint	0.51938464	1.153573574
MP:0003827	abnormal Wolffian duct morphology	0.52008994	1.15359874
GO:0043299	leukocyte degranulation	0.92406371	1.153612742

MP:0002183	gliosis	0.51979128	1.153623406
KEGG_THYROID_CANCER	KEGG_THYROID_CANCER	0.52051521	1.153633503
GO:0022401	negative adaptation of signaling pathway	0.92471337	1.153644755
ENSG00000070367	EXOC5 subnetwork	0.92404683	1.15369507
MP:0008844	decreased subcutaneous adipose tissue amount	0.52006621	1.153719256
MP:0008788	abnormal fetal cardiomyocyte morphology	0.92396739	1.153725609
ENSG00000105880	DLX5 subnetwork	0.92469915	1.153731343
ENSG00000165417	GTF2A1 subnetwork	0.52047265	1.153731455
REACTOME_RAFMAP_KINASE_	REACTOME_RAFMAP_KINASE_CASCADE	0.92381997	1.153752159
GO:0002478	antigen processing and presentation of exogenous peptide	0.51976477	1.153759004
MP:0001344	blepharoptosis	0.52073203	1.153759736
ENSG00000115590	IL1R2 subnetwork	0.92444664	1.153767153
MP:0008585	absent photoreceptor outer segment	0.52130412	1.153785725
ENSG00000160789	LMNA subnetwork	0.52122725	1.153786292
GO:0009416	response to light stimulus	0.92466902	1.153787748
GO:0007020	microtubule nucleation	0.92393759	1.153795009
ENSG00000136930	PSMB7 subnetwork	0.5213861	1.15380012
GO:0048009	insulin-like growth factor receptor signaling pathway	0.52093739	1.153803534
ENSG00000096696	DSP subnetwork	0.52102207	1.153817937
ENSG00000139637	C12orf10 subnetwork	0.52088068	1.153834057
ENSG00000117425	PTCH2 subnetwork	0.92379233	1.153834528
MP:0000278	abnormal myocardial fiber morphology	0.52110445	1.15383982
ENSG00000167768	KRT1 subnetwork	0.92372472	1.153852133
REACTOME_ARMS:MEDIATED_	REACTOME_ARMS:MEDIATED_ACTIVATION	0.92444526	1.153858105
GO:0048844	artery morphogenesis	0.92465332	1.15386142
GO:0030552	cAMP binding	0.92363024	1.153874061
MP:0000135	decreased compact bone thickness	0.51964994	1.153880216
ENSG00000164091	WDR82 subnetwork	0.52153201	1.153881825
ENSG00000206313	ENSG00000206313 subnetwork	0.52303092	1.15388574
ENSG00000160087	UBE2J2 subnetwork	0.51974392	1.153887138
MP:0002686	globozoospermia	0.52005962	1.153892305
ENSG00000213463	SYNJ2BP subnetwork	0.52182057	1.153894454
ENSG00000196497	IPO4 subnetwork	0.52071964	1.153917603
ENSG00000134202	GSTM3 subnetwork	0.52001514	1.153930393
GO:0030903	notochord development	0.52611956	1.153936249
ENSG00000076053	RBM7 subnetwork	0.52621593	1.153943077
MP:0011294	renal glomerulus hypertrophy	0.5212191	1.15394402
GO:0015929	hexosaminidase activity	0.9246422	1.15394805
ENSG00000084207	GSTP1 subnetwork	0.52195249	1.153961136
GO:0021984	adenohypophysis development	0.92362698	1.1539651
GO:0048384	retinoic acid receptor signaling pathway	0.521644	1.153978462
ENSG00000105700	KXD1 subnetwork	0.52633982	1.153986957
REACTOME_CLASS_C3_METAB	REACTOME_CLASS_C3_METABOTROPIC_GLUTAMATEPHER	0.92354489	1.153987041
GO:0010259	multicellular organismal aging	0.92313847	1.154019015
ENSG00000172399	MYO22 subnetwork	0.92347161	1.154021946
ENSG00000141026	MED9 subnetwork	0.52178625	1.154029605
ENSG00000204463	BAG6 subnetwork	0.52303092	1.154057885
MP:0009232	abnormal sperm nucleus morphology	0.52174677	1.154067594
MP:0001155	arrest of spermatogenesis	0.52646265	1.154067872
GO:0008603	cAMP-dependent protein kinase regulator activity	0.92309804	1.154084191
GO:0002790	peptide secretion	0.92299892	1.154084544
ENSG00000144867	SRPRB subnetwork	0.92344339	1.154087099
GO:0071363	cellular response to growth factor stimulus	0.52578152	1.154088144

ENSG00000160695	ENSG00000160695 subnetwork	0.52661632	1.154088889
ENSG00000149257	SERPINH1 subnetwork	0.52611123	1.154099941
MP:0009434	paraparesis	0.52318755	1.154123788
MP:0002762	ectopic cerebellar granule cells	0.922654	1.154133518
GO:0031954	positive regulation of protein autophosphorylation	0.92331189	1.154143981
MP:0000740	impaired smooth muscle contractility	0.92341046	1.154147943
ENSG00000197283	SYNGAP1 subnetwork	0.52573013	1.154170377
GO:0002042	cell migration involved in sprouting angiogenesis	0.5265777	1.154170988
GO:0009101	glycoprotein biosynthetic process	0.52328875	1.154175365
GO:0006120	mitochondrial electron transport, NADH to ubiquinone	0.92299563	1.154179995
GO:0030198	extracellular matrix organization	0.92291509	1.154193325
REACTOME_DNA_REPLICATION	REACTOME_DNA_REPLICATION_PRE:INITIATION	0.52609949	1.15420436
ENSG00000187990	HIST1H2BG subnetwork	0.52542395	1.154217404
REACTOME_MITOTIC_PROMETAPHASE	REACTOME_MITOTIC_PROMETAPHASE	0.92264672	1.154224682
ENSG00000096155	BAG6 subnetwork	0.52303092	1.154230081
GO:0001784	phosphotyrosine binding	0.52555291	1.154231626
MP:0008332	decreased lactotroph cell number	0.52240268	1.154235136
ENSG00000140990	NDUFB10 subnetwork	0.9226044	1.154242346
GO:0050927	positive regulation of positive chemotaxis	0.52677577	1.154266035
ENSG00000196517	SLC6A9 subnetwork	0.52251955	1.154271845
MP:0011368	increased kidney apoptosis	0.52487689	1.154275093
MP:0001146	abnormal testis morphology	0.9225659	1.154290286
GO:0043062	extracellular structure organization	0.92291509	1.154293126
ENSG00000175333	ENSG00000175333 subnetwork	0.92249188	1.154299308
MP:0002970	abnormal white adipose tissue morphology	0.52683996	1.154302429
GO:0071305	cellular response to vitamin D	0.52222583	1.154319235
GO:0005773	vacuole	0.52572092	1.154326852
MP:0000473	abnormal stomach glandular epithelium morphology	0.52300468	1.154327712
MP:0000889	abnormal cerebellar molecular layer	0.92230426	1.154343312
ENSG00000139352	ASCL1 subnetwork	0.92242496	1.154347262
ENSG00000129559	NEDD8 subnetwork	0.52602725	1.154353953
ENSG00000186141	POLR3C subnetwork	0.52484282	1.154357525
GO:0007044	cell-substrate junction assembly	0.52237473	1.154362767
REACTOME_MG1_TRANSITION	REACTOME_MG1_TRANSITION	0.52609949	1.154375556
ENSG00000080819	CPOX subnetwork	0.52507066	1.15437788
ENSG00000116641	DOCK7 subnetwork	0.52378962	1.154380867
KEGG_PYRIMIDINE_METABOLISM	KEGG_PYRIMIDINE_METABOLISM	0.52295804	1.15438806
ENSG00000180596	HIST1H2BC subnetwork	0.52542395	1.154388831
GO:0016411	acylglycerol O-acyltransferase activity	0.52282896	1.15440403
GO:0042354	L-fucose metabolic process	0.5227463	1.154404957
ENSG00000169251	NMD3 subnetwork	0.52232876	1.15441572
ENSG00000073792	IGF2BP2 subnetwork	0.52289745	1.154426034
ENSG00000204842	ATXN2 subnetwork	0.52372548	1.15442623
GO:0050817	coagulation	0.52399068	1.1544317
GO:0005496	steroid binding	0.52500295	1.154438002
GO:0034605	cellular response to heat	0.92230415	1.154443195
ENSG00000068400	GRIPAP1 subnetwork	0.52480711	1.154454856
ENSG00000141956	PRDM15 subnetwork	0.52599329	1.154465875
KEGG_BASAL_TRANSCRIPTION_FACTORS	KEGG_BASAL_TRANSCRIPTION_FACTORS	0.922241	1.154478193
ENSG00000145414	NAF1 subnetwork	0.52525413	1.154479941
MP:0003406	failure of zygotic cell division	0.52513188	1.154481272
GO:0032652	regulation of interleukin-1 production	0.52571508	1.154490796
GO:0003743	translation initiation factor activity	0.52519805	1.154502898

REACTOME_TANDEM_PORE_D	REACTOME_TANDEM_PORE_DOMAIN_POTASSIUM_CHAN	0.5245926	1.154516369
GO:0046330	positive regulation of JNK cascade	0.52396635	1.154529201
ENSG00000174748	RPL15 subnetwork	0.52273414	1.154547491
ENSG00000197846	HIST1H2BF subnetwork	0.52542395	1.154560309
GO:0070848	response to growth factor stimulus	0.52419456	1.154564408
ENSG00000042832	TG subnetwork	0.52702553	1.15456834
MP:0003911	increased drinking behavior	0.92223452	1.154578105
ENSG00000142599	RERE subnetwork	0.52413249	1.154587429
REACTOME_BETA:CATENIN_P	REACTOME_BETA:CATENIN_PHOSPHORYLATION_CASCADE	0.52371449	1.154590848
ENSG00000085276	MECOM subnetwork	0.52477863	1.154596846
MP:0000163	abnormal cartilage morphology	0.92217231	1.154600138
GO:0030279	negative regulation of ossification	0.92200124	1.154609591
ENSG00000197102	DYNC1H1 subnetwork	0.52470574	1.154627288
ENSG00000076864	RAP1GAP subnetwork	0.92212218	1.154639488
GO:0008354	germ cell migration	0.92186117	1.15465368
ENSG00000100304	TLL12 subnetwork	0.52457383	1.154658431
GO:0051293	establishment of spindle localization	0.9218129	1.15467573
GO:0018149	peptide cross-linking	0.92198609	1.154700892
ENSG00000168242	HIST1H2BI subnetwork	0.52542395	1.154731838
REACTOME_METABOLISM_OF	REACTOME_METABOLISM_OF_POLYAMINES	0.52370419	1.154755516
GO:0033522	histone H2A ubiquitination	0.52360285	1.15476368
GO:0051653	spindle localization	0.9218129	1.154775719
ENSG00000115875	SRSF7 subnetwork	0.52454687	1.154778208
MP:0000042	abnormal organ of Corti morphology	0.52440874	1.1548243
ENSG00000175216	CKAP5 subnetwork	0.92177623	1.154828094
GO:0007178	transmembrane receptor protein serine/threonine kinase s	0.92173268	1.154884809
MP:0003453	abnormal keratinocyte physiology	0.52723797	1.1549008
MP:0008587	short photoreceptor outer segment	0.52452797	1.154912908
GO:0006023	aminoglycan biosynthetic process	0.92170186	1.154958857
MP:0002718	abnormal inner cell mass morphology	0.92166287	1.155037249
GO:0045661	regulation of myoblast differentiation	0.92162637	1.155089665
ENSG00000134640	MTNR1B subnetwork	0.92160079	1.15516375
GO:0051875	pigment granule localization	0.92153632	1.155198856
ENSG00000137710	RDX subnetwork	0.52750833	1.155277572
REACTOME_PEPTIDE_CHAIN_E	REACTOME_PEPTIDE_CHAIN_ELONGATION	0.92153506	1.15529896
GO:0016918	retinal binding	0.92144437	1.155373548
GO:0016331	morphogenesis of embryonic epithelium	0.92152681	1.155390415
REACTOME_SHC:RELATED_EVE	REACTOME_SHC:RELATED_EVENTS	0.92139761	1.155434688
GO:0048194	Golgi vesicle budding	0.92139643	1.155530513
GO:0008238	exopeptidase activity	0.92137584	1.155591678
REACTOME_AMINE:DERIVED_F	REACTOME_AMINE:DERIVED_HORMONES	0.92132568	1.155600832
ENSG00000160678	S100A1 subnetwork	0.9212887	1.155649007
REACTOME_NACL:_DEPENDEN	REACTOME_NACL:_DEPENDENT_NEUROTRANSMITTER_TR	0.92123086	1.155714533
GO:0008017	microtubule binding	0.92118393	1.155745382
ENSG00000074696	PTPLAD1 subnetwork	0.52792277	1.15576354
GO:0046824	positive regulation of nucleocytoplasmic transport	0.92115934	1.155828274
ENSG00000055609	MLL3 subnetwork	0.52788392	1.155860589
GO:0004089	carbonate dehydratase activity	0.92115134	1.155924191
ENSG00000182149	IST1 subnetwork	0.92093396	1.155947423
GO:0004693	cyclin-dependent protein kinase activity	0.91940938	1.155974624
REACTOME_MRNA_DECAY_BY	REACTOME_MRNA_DECAY_BY_5_TO_3_EXORIBONUCLEAS	0.92111312	1.155998439
ENSG00000138430	OLA1 subnetwork	0.92081353	1.156013537
ENSG00000066248	NGEF subnetwork	0.52787632	1.156016874

GO:0045744	negative regulation of G-protein coupled receptor protein s	0.91927716	1.156023468
ENSG00000137845	ADAM10 subnetwork	0.91937127	1.156031636
GO:0021532	neural tube patterning	0.92092893	1.156043384
ENSG00000134072	CAMK1 subnetwork	0.91921708	1.156054416
ENSG00000141200	KIF2B subnetwork	0.92108331	1.156064024
MP:0005300	abnormal corneal stroma morphology	0.91987099	1.156094171
GO:0016485	protein processing	0.92079369	1.156100842
GO:0019205	nucleobase-containing compound kinase activity	0.92040065	1.156112172
ENSG00000168397	ATG4B subnetwork	0.52899029	1.156114311
GO:0007606	sensory perception of chemical stimulus	0.91920323	1.156137529
ENSG00000049167	ERCC8 subnetwork	0.92030483	1.156143626
GO:0050886	endocrine process	0.9203554	1.156147434
GO:0006939	smooth muscle contraction	0.92009294	1.15617997
MP:0004351	short humerus	0.91986628	1.156185925
GO:0006612	protein targeting to membrane	0.92078443	1.156192501
ENSG00000137726	FXD6 subnetwork	0.92005295	1.15621091
ENSG00000178741	COX5A subnetwork	0.92028493	1.156213634
GO:0015935	small ribosomal subunit	0.92057046	1.156215817
ENSG00000122778	KIAA1549 subnetwork	0.91918905	1.15621631
GO:0090066	regulation of anatomical structure size	0.91981643	1.156229907
GO:0046879	hormone secretion	0.92023902	1.156244572
MP:0002736	abnormal nociception after inflammation	0.91973802	1.156256517
MP:0009661	abnormal pregnancy	0.92075784	1.156258137
ENSG00000215697	ENSG00000215697 subnetwork	0.52899029	1.156285081
ENSG00000122692	SMU1 subnetwork	0.52841514	1.156285123
GO:0005875	microtubule associated complex	0.5284618	1.15629898
REACTOME_CYTOSOLIC_TRNA	REACTOME_CYTOSOLIC_TRNA_AMINOACYLATION	0.91918369	1.156299452
MP:0001954	respiratory distress	0.91908645	1.1563
ENSG00000171735	CAMTA1 subnetwork	0.91901644	1.156300548
GO:0051882	mitochondrial depolarization	0.920708	1.156306424
GO:0019079	viral genome replication	0.52834877	1.156315634
ENSG00000206380	C6orf48 subnetwork	0.52896064	1.156345103
GO:0060479	lung cell differentiation	0.91875044	1.156350035
GO:0016581	NuRD complex	0.52831968	1.156368343
ENSG00000182923	CEP63 subnetwork	0.52857285	1.156379361
MP:0000106	abnormal basisphenoid bone morphology	0.91899363	1.15637937
GO:0008329	pattern recognition receptor activity	0.9187447	1.156446281
GO:0090100	positive regulation of transmembrane receptor protein seri	0.91897713	1.156466904
ENSG00000198001	IRAK4 subnetwork	0.91869477	1.156481643
ENSG00000204387	C6orf48 subnetwork	0.52896064	1.156515957
MP:0001694	failure to form egg cylinders	0.52830912	1.156517236
ENSG00000214528	ENSG00000214528 subnetwork	0.52871849	1.15654102
GO:0006582	melanin metabolic process	0.91869178	1.156569216
REACTOME_PROLONGED_ERK	REACTOME_PROLONGED_ERK_ACTIVATION_EVENTS	0.91866358	1.156617647
GO:0042303	molting cycle	0.52945334	1.156635666
ENSG00000121068	TBX2 subnetwork	0.52960042	1.156663223
ENSG00000206271	ENSG00000206271 subnetwork	0.52896064	1.156686863
ENSG00000128578	FAM40B subnetwork	0.91853179	1.156688425
GO:0008514	organic anion transmembrane transporter activity	0.52929208	1.156689309
ENSG00000105607	GCDH subnetwork	0.91863276	1.156692194
GO:0051928	positive regulation of calcium ion transport	0.52980377	1.156698141
ENSG00000106588	PSMA2 subnetwork	0.52954845	1.156708487
ENSG00000136205	TNS3 subnetwork	0.91848752	1.156732527

MP:0002745	abnormal atrioventricular valve morphology	0.9184277	1.156733113
ENSG00000179151	EDC3 subnetwork	0.52989127	1.156734032
ENSG00000214517	PPME1 subnetwork	0.91834502	1.156759815
MP:0002690	akinesia	0.52977377	1.15680242
GO:0042633	hair cycle	0.52945334	1.156806437
GO:0051495	positive regulation of cytoskeleton organization	0.52894396	1.156820869
MP:0003339	decreased pancreatic beta cell number	0.91834359	1.156860526
ENSG00000008056	SYN1 subnetwork	0.91834128	1.156961254
ENSG00000198648	STK39 subnetwork	0.91821751	1.157032134
ENSG00000196540	ENSG00000196540 subnetwork	0.91832816	1.157048938
ENSG00000106554	CHCHD3 subnetwork	0.5308412	1.157108132
GO:0006471	protein ADP-ribosylation	0.91803821	1.157125436
ENSG00000198835	GJC2 subnetwork	0.9182108	1.157132904
GO:0006720	isoprenoid metabolic process	0.91798942	1.157187037
GO:0008308	voltage-gated anion channel activity	0.91819726	1.157220625
ENSG00000196611	MMP1 subnetwork	0.53082336	1.157234419
MP:0001984	abnormal olfaction	0.53053528	1.157237618
GO:0032314	regulation of Rac GTPase activity	0.91796488	1.157244293
ENSG00000123159	GIPC1 subnetwork	0.53060967	1.157266028
MP:0000681	abnormal thyroid gland morphology	0.5307252	1.157272325
ENSG00000152464	RPP38 subnetwork	0.91792706	1.157305916
GO:0034199	activation of protein kinase A activity	0.91786642	1.15732398
ENSG00000169252	ADRB2 subnetwork	0.91773723	1.157351403
ENSG00000143228	NUF2 subnetwork	0.91782023	1.157363834
GO:0007163	establishment or maintenance of cell polarity	0.53050376	1.157363998
ENSG00000116747	TROVE2 subnetwork	0.91769358	1.157413057
REACTOME_FORMATION_OF_	REACTOME_FORMATION_OF_THE_EARLY_ELONGATION_C	0.5311528	1.157437408
ENSG00000169032	MAP2K1 subnetwork	0.53046341	1.157446181
MP:0002188	small heart	0.91764927	1.157452929
GO:0030865	cortical cytoskeleton organization	0.53040585	1.1574694
GO:0006555	methionine metabolic process	0.91764396	1.157553831
ENSG00000013297	CLDN11 subnetwork	0.53038313	1.157566372
GO:0031256	leading edge membrane	0.91758621	1.157589364
REACTOME_FORMATION_OF_	REACTOME_FORMATION_OF_THE_HIV:1_EARLY_ELONGAT	0.5311528	1.157607895
ENSG00000144935	TRPC1 subnetwork	0.91749121	1.157616183
GO:0060993	kidney morphogenesis	0.91744243	1.157647367
MP:0003360	abnormal depression-related behavior	0.91742054	1.15772652
ENSG00000145147	SLIT2 subnetwork	0.91741859	1.15782749
GO:0009116	nucleoside metabolic process	0.91737116	1.1578587
MP:0004042	decreased susceptibility to kidney reperfusion injury	0.9173503	1.157946615
MP:0010019	liver vascular congestion	0.53151194	1.15795053
GO:0014910	regulation of smooth muscle cell migration	0.91721618	1.157965451
GO:0000819	sister chromatid segregation	0.91731134	1.157969118
ENSG00000123240	OPTN subnetwork	0.5314512	1.157973789
REACTOME_G:PROTEIN_MEDI	REACTOME_G:PROTEIN_MEDIATED_EVENTS	0.53186099	1.158027962
REACTOME_S_PHASE	REACTOME_S_PHASE	0.53194017	1.158034138
MP:0004409	abnormal crista ampullaris neuroepithelium morphology	0.91534368	1.158047032
GO:0010469	regulation of receptor activity	0.91719184	1.158049036
ENSG00000213782	DDX47 subnetwork	0.91527793	1.158073964
MP:0010024	increased total body fat amount	0.53180829	1.158088019
ENSG00000090989	EXOC1 subnetwork	0.53170558	1.158089209
ENSG00000121621	KIF18A subnetwork	0.91511379	1.158114725
GO:0009914	hormone transport	0.91393272	1.158119583

GO:0015936	coenzyme A metabolic process	0.91412249	1.158140044
MP:0004838	abnormal neural fold elevation formation	0.91717888	1.158141361
GO:0031016	pancreas development	0.91523398	1.15814899
GO:0042133	neurotransmitter metabolic process	0.91507243	1.158167906
GO:0048515	spermatid differentiation	0.9148724	1.158173708
ENSG00000109061	MYH1 subnetwork	0.91551221	1.158177448
GO:0001945	lymph vessel development	0.91424509	1.158183091
ENSG00000197263	OR8D2 subnetwork	0.91606392	1.158190634
GO:0001523	retinoid metabolic process	0.91407682	1.158193277
MP:0001751	increased circulating luteinizing hormone level	0.91672156	1.158198009
GO:0045216	cell-cell junction organization	0.91584471	1.158201521
REACTOME_ACTIVATION_OF_I	REACTOME_ACTIVATION_OF_NMDA_RECEPTOR_UPON_GI	0.91499935	1.158203603
GO:0005793	endoplasmic reticulum-Golgi intermediate compartment	0.91391939	1.158207845
MP:0002626	increased heart rate	0.91699399	1.158222048
ENSG00000102893	PHKB subnetwork	0.91385073	1.158230453
ENSG00000108578	BLMH subnetwork	0.91668954	1.158233651
ENSG00000125845	BMP2 subnetwork	0.91717059	1.158233703
KEGG_PARKINSONS_DISEASE	KEGG_PARKINSONS_DISEASE	0.91600624	1.158235037
ENSG00000105409	ATP1A3 subnetwork	0.91684762	1.158245308
ENSG00000135480	KRT7 subnetwork	0.91580256	1.158259046
ENSG00000128050	PAICS subnetwork	0.91594435	1.158261971
GO:0072210	metanephric nephron development	0.91486349	1.158275017
ENSG00000099250	NRP1 subnetwork	0.91663917	1.15827803
GO:0042537	benzene-containing compound metabolic process	0.91710754	1.158278059
GO:0045669	positive regulation of osteoblast differentiation	0.91627257	1.158280922
MP:0003087	absent allantois	0.91572526	1.158281619
ENSG00000172315	TP53RK subnetwork	0.91618576	1.158290382
GO:0030169	low-density lipoprotein particle binding	0.91659578	1.158313684
MP:0002861	abnormal tail bud morphology	0.9169813	1.15831442
GO:0007164	establishment of tissue polarity	0.91384059	1.158327496
GO:0008556	potassium-transporting ATPase activity	0.91651649	1.158331878
ENSG00000115163	CENPA subnetwork	0.91484252	1.158358849
GO:0032438	melanosome organization	0.91380574	1.158385148
MP:0003637	cochlear ganglion hypoplasia	0.91647115	1.158393746
ENSG00000101473	ACOT8 subnetwork	0.91369409	1.158426031
MP:0000430	absent maxillary shelf	0.91378383	1.158438431
ENSG00000115233	PSMD14 subnetwork	0.53219458	1.158444902
GO:0046579	positive regulation of Ras protein signal transduction	0.91483651	1.158451444
ENSG00000140986	RPL3L subnetwork	0.91474385	1.158474057
REACTOME_G_ALPHA_Q_SIGN	REACTOME_G_ALPHA_Q_SIGNALLING_EVENTS	0.91346851	1.158511477
GO:0048568	embryonic organ development	0.91366604	1.158514366
ENSG00000103496	STX4 subnetwork	0.9146997	1.158527301
GO:0043498	cell surface binding	0.53236644	1.158530666
ENSG00000161202	DVL3 subnetwork	0.91363747	1.158602716
GO:0032204	regulation of telomere maintenance	0.91338025	1.158604977
ENSG00000113645	WWC1 subnetwork	0.91346469	1.158608604
MP:0010018	pulmonary vascular congestion	0.91469595	1.158624311
ENSG00000108262	GIT1 subnetwork	0.53234123	1.158627538
ENSG00000008196	TFAP2B subnetwork	0.91330825	1.158645167
ENSG00000123405	NFE2 subnetwork	0.53265618	1.158651867
ENSG00000108854	SMURF2 subnetwork	0.53257674	1.158653139
GO:0030118	clathrin coat	0.53250823	1.158654412
MP:0005201	abnormal retinal pigment epithelium morphology	0.91325467	1.158667835

GO:0090177	establishment of planar polarity involved in neural tube clo	0.9128738	1.158706708
ENSG00000198104	OR2T6 subnetwork	0.91300577	1.158754164
REACTOME_REGULATION_OF_	REACTOME_REGULATION_OF_INSULIN:LIKE_GROWTH_FAC	0.91323375	1.158756245
GO:0042562	hormone binding	0.913169	1.158774544
ENSG00000181031	RPH3AL subnetwork	0.53278619	1.15877554
ENSG00000166851	PLK1 subnetwork	0.91286694	1.158803928
MP:0001385	pup cannibalization	0.91312558	1.158819146
ENSG00000176534	ENSG00000176534 subnetwork	0.91263144	1.158867643
GO:0000083	regulation of transcription involved in G1/S phase of mitoti	0.91274965	1.158880021
ENSG00000185245	GP1BA subnetwork	0.91285851	1.158896782
ENSG00000198637	ENSG00000198637 subnetwork	0.91263144	1.158969298
ENSG00000196681	ENSG00000196681 subnetwork	0.91263144	1.159070971
MP:0011506	glomerular crescent	0.53361388	1.159101585
ENSG00000105939	ZC3HAV1 subnetwork	0.53355524	1.159124945
GO:0008158	hedgehog receptor activity	0.912595	1.159137568
ENSG00000188687	SLC4A5 subnetwork	0.53318105	1.159219806
GO:0042737	drug catabolic process	0.91259287	1.159239273
ENSG00000132357	CARD6 subnetwork	0.53311758	1.159243204
ENSG00000214021	TTL3 subnetwork	0.53326736	1.159247833
ENSG00000105223	PLD3 subnetwork	0.53353959	1.15928047
ENSG00000124164	VAPB subnetwork	0.91220343	1.159295997
GO:0001764	neuron migration	0.91236859	1.159316307
GO:0042228	interleukin-8 biosynthetic process	0.91257712	1.159332222
GO:0030595	leukocyte chemotaxis	0.53308397	1.159347443
ENSG00000105993	DNAJB6 subnetwork	0.91232465	1.159361011
ENSG00000175445	LPL subnetwork	0.91219098	1.159384602
GO:0003725	double-stranded RNA binding	0.53350227	1.159384638
MP:0005322	abnormal serotonin level	0.91253983	1.159390083
GO:0019674	NAD metabolic process	0.91210781	1.159416155
GO:0046847	filopodium assembly	0.91206692	1.159452103
GO:0043408	regulation of MAPK cascade	0.53349192	1.159525558
GO:0015802	basic amino acid transport	0.91204973	1.159545135
GO:0032024	positive regulation of insulin secretion	0.91198475	1.159589883
MP:0008284	abnormal hippocampus pyramidal cell layer	0.91187396	1.159648661
GO:0004181	metallocarboxypeptidase activity	0.91196576	1.15966977
GO:0016298	lipase activity	0.9118175	1.159697822
GO:0007041	lysosomal transport	0.91159959	1.159735524
ENSG00000144596	ENSG00000144596 subnetwork	0.91176492	1.159738206
ENSG00000156427	FGF18 subnetwork	0.9115791	1.159806678
GO:0090278	negative regulation of peptide hormone secretion	0.9117422	1.159840098
ENSG00000107831	FGF8 subnetwork	0.9115791	1.159908604
GO:0043014	alpha-tubulin binding	0.53421593	1.159992663
ENSG00000111241	FGF6 subnetwork	0.9115791	1.160010547
ENSG00000106028	SSBP1 subnetwork	0.53415581	1.160023481
GO:2000027	regulation of organ morphogenesis	0.53441006	1.160032268
MP:0003662	abnormal long bone epiphyseal plate proliferative zone	0.53451404	1.160067459
GO:0046605	regulation of centrosome cycle	0.53437618	1.160085081
ENSG00000070388	FGF22 subnetwork	0.9115791	1.160112508
ENSG00000104915	STX10 subnetwork	0.53461584	1.160124633
ENSG00000163636	PSMD6 subnetwork	0.53415133	1.160171731
ENSG00000171759	PAH subnetwork	0.91128185	1.160204889
ENSG00000158815	FGF17 subnetwork	0.9115791	1.160214487
GO:2001014	regulation of skeletal muscle cell differentiation	0.91118534	1.160214581

MP:0002656	abnormal keratinocyte differentiation	0.53437288	1.160247946
ENSG00000005194	CIAPIN1 subnetwork	0.53483194	1.160275579
ENSG00000185324	CDK10 subnetwork	0.91103687	1.160282347
GO:0016628	oxidoreductase activity, acting on the CH-CH group of dono	0.91149737	1.160291015
ENSG00000116584	ARHGEF2 subnetwork	0.53476946	1.160291746
GO:0071482	cellular response to light stimulus	0.53492959	1.160296057
GO:0060986	endocrine hormone secretion	0.9111773	1.160312225
ENSG00000162344	FGF19 subnetwork	0.9115791	1.160316484
GO:0051318	G1 phase	0.9114743	1.160362261
GO:0072273	metanephric nephron morphogenesis	0.91099347	1.160362421
MP:0002090	abnormal vision	0.91079794	1.160400352
ENSG00000115942	ORC2 subnetwork	0.91096088	1.160416117
MP:0006086	decreased body mass index	0.91089808	1.16043463
ENSG00000140678	ITGAX subnetwork	0.91065429	1.160454985
ENSG00000197223	C1D subnetwork	0.91074918	1.160467265
ENSG00000018408	WWTR1 subnetwork	0.91056893	1.160473508
ENSG00000108298	RPL19 subnetwork	0.91056099	1.160571253
GO:0060117	auditory receptor cell development	0.91051842	1.160616197
GO:0000186	activation of MAPKK activity	0.53515292	1.160631594
ENSG00000188157	AGRN subnetwork	0.53546653	1.16066198
ENSG00000198755	RPL10A subnetwork	0.53522247	1.160673993
KEGG_LYSOSOME	KEGG_LYSOSOME	0.53531144	1.160701729
MP:0005048	thrombosis	0.91050577	1.160713971
GO:0033613	activating transcription factor binding	0.53543067	1.160758752
ENSG00000076003	MCM6 subnetwork	0.9104728	1.160789752
ENSG00000139182	CLSTN3 subnetwork	0.91037666	1.160790702
GO:2000241	regulation of reproductive process	0.53586315	1.160831382
MP:0000875	abnormal cerebellar Purkinje cell layer	0.53570362	1.160849195
ENSG00000182117	NOP10 subnetwork	0.91034731	1.160862099
MP:0002073	abnormal hair growth	0.53564356	1.160887392
ENSG00000137699	TRIM29 subnetwork	0.53632516	1.160896592
ENSG00000168003	SLC3A2 subnetwork	0.53621844	1.160898186
GO:0032409	regulation of transporter activity	0.91034186	1.160955526
MP:0004736	abnormal distortion product otoacoustic emission	0.91029722	1.161000528
GO:0045069	regulation of viral genome replication	0.53585882	1.161001318
GO:0032886	regulation of microtubule-based process	0.91012353	1.161024489
REACTOME_CLASSICAL_ANTI	REACTOME_CLASSICAL_ANTIBODY:MEDIATED_COMPLEME	0.53620555	1.161046086
REACTOME_SPHINGOLIPID_DE	REACTOME_SPHINGOLIPID_DE_NOVO_BIOSYNTHESIS	0.91007889	1.161073914
GO:0046323	glucose import	0.91028396	1.161098388
ENSG00000100931	ENSG00000100931 subnetwork	0.91002843	1.161123348
ENSG00000143013	LMO4 subnetwork	0.53608164	1.161144446
ENSG00000168078	PBK subnetwork	0.53618859	1.161150132
ENSG00000073756	PTGS2 subnetwork	0.53719344	1.161180079
GO:0046889	positive regulation of lipid biosynthetic process	0.53654102	1.161187482
MP:0000267	abnormal heart development	0.91002704	1.161221253
MP:0008236	decreased susceptibility to neuronal excitotoxicity	0.90998378	1.161275115
MP:0003657	abnormal erythrocyte osmotic lysis	0.53735737	1.161280666
GO:0000271	polysaccharide biosynthetic process	0.53682647	1.161292209
ENSG00000188529	SRSF10 subnetwork	0.90880693	1.161320921
MP:0004158	right aortic arch	0.90970556	1.161323166
MP:0002725	abnormal vein morphology	0.90993845	1.161328986
GO:0051020	GTPase binding	0.53718191	1.16134239
ENSG00000120253	NUP43 subnetwork	0.90985512	1.161343205

GO:0042773	ATP synthesis coupled electron transport	0.90962763	1.161346205
GO:0015175	neutral amino acid transmembrane transporter activity	0.90979983	1.161366241
MP:0001664	abnormal digestion	0.53677257	1.161366959
MP:0004883	abnormal vascular wound healing	0.53711713	1.161395179
MP:0003084	abnormal skeletal muscle fiber morphology	0.53767408	1.161414392
REACTOME_PHASE_1:_FUNC	REACTOME_PHASE_1:_FUNCTIONALIZATION_OF_COMPO	0.53672601	1.161419798
GO:0010038	response to metal ion	0.90880168	1.161423403
ENSG00000180818	HOXC10 subnetwork	0.90895384	1.16143021
MP:0005631	decreased lung weight	0.53788423	1.161438576
MP:0001634	internal hemorrhage	0.53708648	1.161447984
GO:0042775	mitochondrial ATP synthesis coupled electron transport	0.90962763	1.161448598
GO:0008417	fucosyltransferase activity	0.53799554	1.161480671
ENSG00000163681	SLMAP subnetwork	0.90877884	1.161512664
ENSG00000153071	DAB2 subnetwork	0.90962084	1.161537783
ENSG00000172301	C17orf79 subnetwork	0.53785992	1.161549686
GO:0090003	regulation of establishment of protein localization in plasm	0.90930311	1.161554066
MP:0001065	abnormal trigeminal nerve morphology	0.90918247	1.161556104
ENSG00000185236	RAB11B subnetwork	0.53767037	1.161569343
GO:0008083	growth factor activity	0.53707373	1.161595791
ENSG00000132182	NUP210 subnetwork	0.90876984	1.161597529
ENSG00000197860	SGTB subnetwork	0.90956869	1.161600529
GO:0048738	cardiac muscle tissue development	0.90947867	1.1616236
GO:0016998	cell wall macromolecule catabolic process	0.90916222	1.161649757
MP:0005102	abnormal iris pigmentation	0.90929997	1.161652113
ENSG00000058404	CAMK2B subnetwork	0.53783616	1.161653532
GO:0033540	fatty acid beta-oxidation using acyl-CoA oxidase	0.53703258	1.161655949
GO:0035136	forelimb morphogenesis	0.90876586	1.161691235
ENSG00000174111	SOCS7 subnetwork	0.53765129	1.161702438
GO:0047496	vesicle transport along microtubule	0.90872556	1.161749647
ENSG00000136854	STXBP1 subnetwork	0.90841464	1.16183432
REACTOME_IRS:RELATED_EVEI	REACTOME_IRS:RELATED_EVENTS	0.90872263	1.161847797
ENSG00000112493	TAPBP subnetwork	0.54216808	1.161891657
ENSG00000115844	DLX2 subnetwork	0.90839549	1.161923688
GO:0071158	positive regulation of cell cycle arrest	0.54233108	1.161931654
GO:0010770	positive regulation of cell morphogenesis involved in differ	0.55298581	1.161937225
REACTOME_IRS:MEDIATED_SIK	REACTOME_IRS:MEDIATED_SIGNALLING	0.90872263	1.16195038
REACTOME_TELOMERE_MAIN	REACTOME_TELOMERE_MAINTENANCE	0.55112036	1.161954973
ENSG00000105325	FZR1 subnetwork	0.90836707	1.161973324
GO:0090342	regulation of cell aging	0.55398636	1.161982416
MP:0003641	small lung	0.55345896	1.161999716
REACTOME_DIABETES_PATHW	REACTOME_DIABETES_PATHWAYS	0.90870389	1.16202649
GO:0051153	regulation of striated muscle cell differentiation	0.90865044	1.162027552
ENSG00000107854	TNKS2 subnetwork	0.54230128	1.16204924
GO:0002279	mast cell activation involved in immune response	0.90834439	1.16204947
ENSG00000123975	CKS2 subnetwork	0.55296061	1.162052557
ENSG00000206281	TAPBP subnetwork	0.54216808	1.162059974
ENSG00000166716	ZNF592 subnetwork	0.55394462	1.162083392
ENSG00000123685	BATF3 subnetwork	0.5511166	1.162099188
ENSG00000111087	GLI1 subnetwork	0.53833685	1.162106184
ENSG00000197111	PCBP2 subnetwork	0.55328298	1.162125515
ENSG00000107816	LZTS2 subnetwork	0.90833773	1.162143299
GO:0090305	nucleic acid phosphodiester bond hydrolysis	0.55104397	1.162143672
GO:0006364	rRNA processing	0.5534562	1.162164656

GO:0060736	prostate gland growth	0.53886195	1.162168464
ENSG00000139269	INHBE subnetwork	0.55154013	1.162176018
GO:0000323	lytic vacuole	0.55294822	1.162189231
ENSG00000111961	SASH1 subnetwork	0.55208311	1.162192346
GO:0045445	myoblast differentiation	0.90830797	1.162201802
ENSG00000115616	SLC9A2 subnetwork	0.55099035	1.162202423
MP:0003058	increased insulin secretion	0.55201631	1.16220831
MP:0008670	decreased interleukin-12b secretion	0.55340198	1.162208972
MP:0003232	abnormal forebrain development	0.53860588	1.162210235
ENSG00000206208	TAPBP subnetwork	0.54216808	1.16222834
ENSG00000159479	MED8 subnetwork	0.55089159	1.162232678
ENSG00000166441	RPL27A subnetwork	0.55279888	1.162235328
GO:0003729	mRNA binding	0.55393755	1.162241135
GO:0006884	cell volume homeostasis	0.5427187	1.162252135
ENSG00000122490	PQLC1 subnetwork	0.53882554	1.162264976
GO:0010632	regulation of epithelial cell migration	0.54266862	1.162268384
ENSG00000114698	PLSCR4 subnetwork	0.90829171	1.162269153
ENSG00000103502	CDIPT subnetwork	0.55327378	1.162269242
GO:0072401	signal transduction involved in DNA integrity checkpoint	0.5485438	1.162294143
MP:0001967	deafness	0.55150666	1.162305939
ENSG00000160957	RECQL4 subnetwork	0.90825945	1.162318841
GO:0043277	apoptotic cell clearance	0.54262062	1.162320834
GO:0045017	glycerolipid biosynthetic process	0.53905118	1.162326971
KEGG_PHENYLALANINE_META	KEGG_PHENYLALANINE_METABOLISM	0.54212451	1.162331546
ENSG00000109072	SEBOX subnetwork	0.9081477	1.162333186
GO:0050706	regulation of interleukin-1 beta secretion	0.55200193	1.16234524
MP:0001970	abnormal pain threshold	0.55438309	1.162352941
GO:0005764	lysosome	0.55294822	1.162354362
REACTOME_POLYMERASE_SW	REACTOME_POLYMERASE_SWITCHING_ON_THE_C:STRANI	0.55087908	1.162355625
ENSG00000184481	FOXO4 subnetwork	0.53859065	1.16235783
ENSG00000169957	ZNF768 subnetwork	0.55278116	1.162372086
GO:0035085	cilium axoneme	0.55391509	1.162377642
GO:0051238	sequestering of metal ion	0.53879857	1.162383382
MP:0000527	abnormal kidney development	0.90794369	1.162385078
MP:0001556	increased circulating HDL cholesterol level	0.90812567	1.162404985
ENSG00000124172	ATP5E subnetwork	0.55252979	1.162412911
ENSG00000068323	TFE3 subnetwork	0.55148263	1.16241453
ENSG00000171403	KRT9 subnetwork	0.55449358	1.162429138
GO:0060326	cell chemotaxis	0.55228126	1.162432432
GO:0007435	salivary gland morphogenesis	0.55174068	1.162437705
MP:0008974	proportional dwarf	0.53855718	1.162447134
GO:0072413	signal transduction involved in mitotic cell cycle checkpoint	0.5485438	1.162460613
ENSG00000184313	HEATR8 subnetwork	0.54211174	1.162463768
GO:0015103	inorganic anion transmembrane transporter activity	0.55143428	1.162466163
ENSG00000130787	HIP1R subnetwork	0.55378477	1.162466298
GO:0006006	glucose metabolic process	0.55388677	1.162471623
GO:0003081	regulation of systemic arterial blood pressure by renin-angi	0.90791835	1.162483423
GO:0046148	pigment biosynthetic process	0.54203781	1.162494564
MP:0002021	increased incidence of induced tumors	0.55239611	1.162501778
MP:0005309	increased circulating ammonia level	0.90811944	1.162503315
GO:0006520	cellular amino acid metabolic process	0.55437236	1.162503544
GO:0048008	platelet-derived growth factor receptor signaling pathway	0.55276907	1.162508884
GO:0050704	regulation of interleukin-1 secretion	0.55200193	1.162510675

ENSG00000018699	TTC27 subnetwork	0.55250356	1.162521331
REACTOME_LEADING_STRAND	REACTOME_LEADING_STRAND_SYNTHESIS	0.55087908	1.162521392
MP:0005637	abnormal iron homeostasis	0.90755328	1.162542013
GO:2000191	regulation of fatty acid transport	0.55431752	1.162547852
MP:0000849	abnormal cerebellum morphology	0.55194063	1.162548043
GO:0072529	pyrimidine-containing compound catabolic process	0.55186837	1.162556948
GO:0045987	positive regulation of smooth muscle contraction	0.9073161	1.162558613
MP:0008770	decreased survivor rate	0.90791075	1.162572944
GO:0032435	negative regulation of proteasomal ubiquitin-dependent pr	0.90717968	1.162572996
ENSG00000198053	SIRPA subnetwork	0.55270632	1.162581746
MP:0004783	abnormal cardinal vein morphology	0.54174522	1.162603336
ENSG00000173372	C1QA subnetwork	0.90785406	1.162605005
GO:0051900	regulation of mitochondrial depolarization	0.90751574	1.162605042
MP:0003861	abnormal nervous system development	0.54199382	1.162605103
GO:0043304	regulation of mast cell degranulation	0.90711818	1.162609504
MP:0008531	increased chemical nociceptive threshold	0.54294005	1.162626628
GO:0072422	signal transduction involved in DNA damage checkpoint	0.5485438	1.162627131
ENSG00000123124	WWP1 subnetwork	0.54900886	1.162659224
GO:0050796	regulation of insulin secretion	0.90780982	1.162668023
GO:0010506	regulation of autophagy	0.54169004	1.162670438
REACTOME_POLYMERASE_SW	REACTOME_POLYMERASE_SWITCHING	0.55087908	1.162687206
MP:0010879	decreased trabecular bone volume	0.90776081	1.162691253
GO:0000002	mitochondrial genome maintenance	0.90749916	1.162694621
MP:0004097	abnormal cerebellar cortex morphology	0.90710881	1.16270354
ENSG000000065328	MCM10 subnetwork	0.53930467	1.1627331
ENSG00000110841	PPFIBP1 subnetwork	0.9070686	1.162762191
ENSG000000087365	SF3B2 subnetwork	0.54996706	1.162766109
ENSG00000140694	PARN subnetwork	0.54199208	1.16276642
MP:0003207	decreased cellular sensitivity to gamma-irradiation	0.5415894	1.162775682
GO:0072431	signal transduction involved in mitotic cell cycle G1/S transi	0.5485438	1.162793696
GO:0046504	glycerol ether biosynthetic process	0.55085945	1.162817404
GO:0033180	proton-transporting V-type ATPase, V1 domain	0.5490016	1.162818494
GO:0045073	regulation of chemokine biosynthetic process	0.54168885	1.162831858
GO:0051452	intracellular pH reduction	0.90688404	1.162831976
GO:0030125	clathrin vesicle coat	0.55558224	1.162832484
MP:0002075	abnormal coat/hair pigmentation	0.54980026	1.162835906
GO:0045786	negative regulation of cell cycle	0.554757	1.162838317
ENSG00000181790	BAI1 subnetwork	0.55025108	1.162839189
GO:0043154	negative regulation of cysteine-type endopeptidase activity	0.54196501	1.162862529
ENSG00000160803	UBQLN4 subnetwork	0.9070685	1.162865109
GO:0042594	response to starvation	0.90683205	1.162872953
ENSG00000115919	KYNU subnetwork	0.55063605	1.162879977
ENSG00000158987	RAPGEF6 subnetwork	0.54993937	1.162882252
GO:0007250	activation of NF-kappaB-inducing kinase activity	0.55080511	1.162883436
ENSG00000148660	CAMK2G subnetwork	0.55073058	1.162892409
ENSG00000136942	RPL35 subnetwork	0.55488209	1.162893171
GO:0006903	vesicle targeting	0.907014	1.162897229
GO:0006707	cholesterol catabolic process	0.55551619	1.162897977
MP:0002230	abnormal primitive streak formation	0.54975683	1.162902073
GO:0060428	lung epithelium development	0.90670139	1.162906225
GO:0043394	proteoglycan binding	0.9067742	1.162913937
GO:0030117	membrane coat	0.55581666	1.162918965
GO:0061035	regulation of cartilage development	0.54928918	1.162920303

REACTOME_PEPTIDE_HORMONE_BIOSYNTHESIS		0.54157822	1.162922653
ENSG00000142949	PTPRF subnetwork	0.90654377	1.162935081
ENSG00000149557	FEZ1 subnetwork	0.54921129	1.162936463
GO:0072474	signal transduction involved in mitotic cell cycle G1/S check	0.5485438	1.162960309
ENSG00000004948	CALCR subnetwork	0.55627726	1.162966365
GO:0008191	metalloendopeptidase inhibitor activity	0.54899911	1.162970651
ENSG00000153234	NR4A2 subnetwork	0.90667955	1.162982643
ENSG00000100410	PHF5A subnetwork	0.55023947	1.162991001
GO:0032006	regulation of TOR signaling cascade	0.54321852	1.162993778
ENSG00000153208	MERTK subnetwork	0.54971465	1.162996854
GO:0010565	regulation of cellular ketone metabolic process	0.54153677	1.163004354
ENSG00000124193	SRSF6 subnetwork	0.53953969	1.163006117
ENSG00000198554	WDHD1 subnetwork	0.55060919	1.163010277
REACTOME_DNA_STRAND_ELONGATION		0.54816553	1.163021655
ENSG00000185624	P4HB subnetwork	0.53994764	1.16302576
ENSG00000107263	RAPGEF1 subnetwork	0.54788798	1.16302726
ENSG00000099882	ENSG00000099882 subnetwork	0.54784282	1.163036304
MP:0010418	perimembraneous ventricular septal defect	0.90654045	1.163038087
GO:0019400	alditol metabolic process	0.55670914	1.163041943
GO:0004540	ribonuclease activity	0.55020108	1.163042857
GO:0042575	DNA polymerase complex	0.5499366	1.163048449
GO:0045668	negative regulation of osteoblast differentiation	0.55534904	1.163052095
GO:0016127	sterol catabolic process	0.55551619	1.163062553
MP:0008235	increased susceptibility to neuronal excitotoxicity	0.90648954	1.163065816
MP:0004502	decreased incidence of chemically-induced tumors	0.5413376	1.163068099
GO:0050702	interleukin-1 beta secretion	0.54835682	1.163073394
ENSG00000003096	KLHL13 subnetwork	0.53950637	1.163080845
GO:0048475	coated membrane	0.55581666	1.163083451
MP:0001730	embryonic growth arrest	0.54342605	1.163084045
ENSG00000154096	THY1 subnetwork	0.55626967	1.163088339
ENSG00000154710	RABGEF1 subnetwork	0.5480242	1.163097117
ENSG00000140795	MYLK3 subnetwork	0.90642127	1.16309798
GO:0006977	DNA damage response, signal transduction by p53 class me	0.5485438	1.16312697
ENSG00000168538	TRAPPC11 subnetwork	0.54968741	1.163127413
GO:0071216	cellular response to biotic stimulus	0.54128517	1.163135347
GO:0048551	metalloenzyme inhibitor activity	0.54899911	1.163137171
ENSG00000006451	RALA subnetwork	0.54147359	1.163138792
REACTOME_GLOBAL_GENOMIC_NER		0.55059767	1.163147752
ENSG00000111752	PHC1 subnetwork	0.55577204	1.16314896
ENSG00000184083	FAM120C subnetwork	0.54337006	1.163151042
GO:0016879	ligase activity, forming carbon-nitrogen bonds	0.54814627	1.16315261
ENSG00000162961	DPY30 subnetwork	0.55045217	1.163172926
MP:0002801	abnormal long term object recognition memory	0.54153275	1.163173175
REACTOME_VIRAL_MESSENGER_RNA_SYNTHESIS		0.53993458	1.163173217
REACTOME_NUCLEOTIDE_EXCISION_REPAIR		0.55549152	1.163177636
ENSG00000115207	GTF3C2 subnetwork	0.90641433	1.163183308
GO:0034080	CenH3-containing nucleosome assembly at centromere	0.55670151	1.163185028
REACTOME_FRS2:MEDIATED_ACTIVATION		0.90634534	1.163193337
GO:0009066	aspartate family amino acid metabolic process	0.54783732	1.163203215
MP:0000627	abnormal mammary gland morphology	0.54827769	1.163206194
ENSG00000136653	RASSF5 subnetwork	0.55534604	1.163209684
GO:0009612	response to mechanical stimulus	0.5562379	1.163210348
ENSG00000136156	ITM2B subnetwork	0.54851263	1.163214849

ENSG00000109062	SLC9A3R1 subnetwork	0.55508608	1.16321717
ENSG00000197958	RPL12 subnetwork	0.54026377	1.163238289
KEGG_VIBRIO_CHOLERAЕ_INFECTION	KEGG_VIBRIO_CHOLERAЕ_INFECTION	0.541264	1.163238925
ENSG00000175482	POLD4 subnetwork	0.5483537	1.163240143
ENSG00000156475	PPP2R2B subnetwork	0.53988769	1.163240646
GO:0004984	olfactory receptor activity	0.5505439	1.163249572
GO:0051289	protein homotetramerization	0.54966968	1.163250858
ENSG00000174243	DDX23 subnetwork	0.54118642	1.163255375
MP:0002835	abnormal cranial suture morphology	0.90330613	1.163258687
ENSG00000137992	DBT subnetwork	0.55614744	1.163261699
MP:0009288	increased epididymal fat pad weight	0.53982842	1.163264415
GO:0090178	regulation of establishment of planar polarity involved in neurulation	0.90632504	1.163265397
ENSG00000108828	VAT1 subnetwork	0.54961602	1.16327421
MP:0001330	abnormal optic nerve morphology	0.904814	1.163284231
ENSG00000183386	FHL3 subnetwork	0.55607796	1.163291855
GO:0050891	multicellular organismal water homeostasis	0.90445799	1.163293387
GO:0006323	DNA packaging	0.9034064	1.163297494
MP:0001906	increased dopamine level	0.90576622	1.163303484
MP:0004110	transposition of great arteries	0.54955118	1.163304721
ENSG00000196136	SERPINA3 subnetwork	0.55532314	1.163317757
ENSG00000108272	DHRS11 subnetwork	0.90458328	1.163327712
MP:0001723	disorganized yolk sac vascular plexus	0.90496331	1.163340728
ENSG00000063245	EPN1 subnetwork	0.90329062	1.163344294
MP:0001242	hyperkeratosis	0.55527915	1.163347968
GO:0034724	DNA replication-independent nucleosome organization	0.55670151	1.163349343
GO:0014909	smooth muscle cell migration	0.90560091	1.163350182
GO:0050701	interleukin-1 secretion	0.55992826	1.163355346
GO:0045739	positive regulation of DNA repair	0.90316973	1.163355556
GO:0048407	platelet-derived growth factor binding	0.53978708	1.163361002
ENSG00000178982	EIF3K subnetwork	0.90324082	1.163367701
GO:0090179	planar cell polarity pathway involved in neural tube closure	0.90632504	1.163368486
MP:0003633	abnormal nervous system physiology	0.5478366	1.163370174
ENSG00000007237	GAS7 subnetwork	0.56015691	1.163370787
GO:0007254	JNK cascade	0.5402343	1.163371163
GO:0031100	organ regeneration	0.55815112	1.163371847
ENSG00000180198	RCC1 subnetwork	0.90524114	1.16337266
GO:0006027	glycosaminoglycan catabolic process	0.90615822	1.163375288
GO:0032446	protein modification by small protein conjugation	0.9041737	1.16337803
ENSG00000150867	PIP4K2A subnetwork	0.55988624	1.163378302
GO:0072077	renal vesicle morphogenesis	0.90369578	1.163379531
ENSG00000136842	TMOD1 subnetwork	0.90388897	1.163381595
GO:0071824	protein-DNA complex subunit organization	0.54370025	1.163383948
MP:0005195	abnormal posterior eye segment morphology	0.90481278	1.163387469
ENSG00000124333	VAMP7 subnetwork	0.90437095	1.163388973
GO:0051412	response to corticosterone stimulus	0.90444647	1.163392223
MP:0004859	abnormal synaptic plasticity	0.90362425	1.163394047
MP:0005307	head tossing	0.90575697	1.163397766
REACTOME_TELOMERE_C:STRAND_LAGGING_STRAND_SYNDROME	REACTOME_TELOMERE_C:STRAND_LAGGING_STRAND_SYNDROME	0.56026815	1.163411038
GO:0031514	motile cilium	0.9055364	1.163413444
ENSG000000013503	POLR3B subnetwork	0.54541051	1.163413579
GO:0008194	UDP-glycosyltransferase activity	0.90626467	1.163422849
MP:0003055	abnormal long bone epiphyseal plate morphology	0.54118319	1.163424379
GO:0030042	actin filament depolymerization	0.5438369	1.16342539

GO:0045742	positive regulation of epidermal growth factor receptor sig	0.90431994	1.163425679
MP:0005075	abnormal melanosome morphology	0.56051643	1.163426446
ENSG00000030582	GRN subnetwork	0.55524071	1.163427762
ENSG00000164919	COX6C subnetwork	0.90612045	1.16342966
GO:0014704	intercalated disc	0.9031606	1.163432305
ENSG00000147883	CDKN2B subnetwork	0.54110063	1.163433595
ENSG00000164061	BSN subnetwork	0.90519837	1.163435947
GO:0000460	maturation of 5.8S rRNA	0.56033993	1.163437237
MP:0003814	vascular smooth muscle cell hypoplasia	0.90476935	1.163437472
ENSG00000047621	C12orf4 subnetwork	0.90384747	1.163440526
MP:0004624	abnormal thoracic cage morphology	0.56058053	1.163445614
MP:0001154	seminiferous tubule degeneration	0.90510765	1.163446012
ENSG00000174292	TNK1 subnetwork	0.54365211	1.163450969
ENSG00000138107	ACTR1A subnetwork	0.54778874	1.163451048
ENSG00000097033	SH3GLB1 subnetwork	0.55705116	1.163468869
GO:0071702	organic substance transport	0.90416801	1.163472469
ENSG00000076924	XAB2 subnetwork	0.56046935	1.163477467
ENSG00000102755	FLT1 subnetwork	0.5566065	1.163480288
REACTOME_SHC1_EVENTS_IN_REACTOME_SHC1_EVENTS_IN_ERBB2_SIGNALING		0.55983599	1.163485594
GO:0031345	negative regulation of cell projection organization	0.90408466	1.163504752
MP:0009399	increased skeletal muscle fiber size	0.9055235	1.163512195
GO:0006336	DNA replication-independent nucleosome assembly	0.55670151	1.163513704
ENSG00000136110	LECT1 subnetwork	0.5477488	1.163517588
ENSG00000063244	U2AF2 subnetwork	0.54021847	1.163518626
ENSG00000120500	ARR3 subnetwork	0.90610226	1.163519504
GO:0051567	histone H3-K9 methylation	0.54758215	1.163521471
GO:0014896	muscle hypertrophy	0.54530157	1.163525595
ENSG00000076554	TPD52 subnetwork	0.56014269	1.163527181
GO:0014823	response to activity	0.55814873	1.163528749
MP:0005564	increased hemoglobin content	0.5476821	1.163533889
GO:0050999	regulation of nitric-oxide synthase activity	0.90316037	1.16353574
GO:0006094	gluconeogenesis	0.54750247	1.163537777
GO:0006626	protein targeting to mitochondrion	0.54558973	1.163541366
ENSG00000166233	ARIH1 subnetwork	0.55700385	1.163548433
REACTOME_DSCAM_INTERACT	REACTOME_DSCAM_INTERACTIONS	0.5410746	1.163551809
GO:0060338	regulation of type I interferon-mediated signaling pathway	0.55808574	1.163565891
ENSG00000197586	ENTPD6 subnetwork	0.54540951	1.163581315
GO:0010822	positive regulation of mitochondrion organization	0.56009617	1.163585277
GO:0090103	cochlea morphogenesis	0.90550027	1.163588788
GO:0018195	peptidyl-arginine modification	0.56164932	1.163600056
GO:0046887	positive regulation of hormone secretion	0.9030213	1.163604837
GO:0048365	Rac GTPase binding	0.54511941	1.163610791
GO:0005537	mannose binding	0.54102653	1.163611919
ENSG00000013583	HEBP1 subnetwork	0.54570189	1.163618677
ENSG00000204310	AGPAT1 subnetwork	0.55891148	1.163626126
MP:0001144	vagina atresia	0.54527497	1.163628497
ENSG00000139116	KIF21A subnetwork	0.56156217	1.163629993
ENSG00000100519	PSMC6 subnetwork	0.54747232	1.163633099
REACTOME_VIRAL_MRNA_TRA	REACTOME_VIRAL_MRNA_TRANSLATION	0.90314643	1.163634747
ENSG00000167657	DAPK3 subnetwork	0.54083775	1.163644955
ENSG00000151320	AKAP6 subnetwork	0.55982307	1.163649143
GO:0033993	response to lipid	0.55791857	1.163649182
ENSG00000177731	FLII subnetwork	0.5579926	1.163661356

GO:0016709	oxidoreductase activity, acting on paired donors, with incor	0.55735372	1.163669725
GO:0003779	actin binding	0.55783202	1.163672261
GO:0035036	sperm-egg recognition	0.55758013	1.163678047
ENSG00000085365	ENSG00000085365 subnetwork	0.540961	1.163679314
ENSG00000171444	MCC subnetwork	0.55767575	1.163683171
GO:0032434	regulation of proteasomal ubiquitin-dependent protein cat	0.54475823	1.163701992
ENSG00000107581	EIF3A subnetwork	0.54494298	1.163703276
ENSG00000179071	CCDC89 subnetwork	0.90301661	1.163703868
GO:0035295	tube development	0.55912368	1.163713763
ENSG00000111667	USP5 subnetwork	0.55808249	1.163715816
REACTOME_SYNTHESIS_OF_GL	REACTOME_SYNTHESIS_OF_GLYCOSYLPHOSPHATIDYLINOS	0.55751091	1.163722308
ENSG00000152818	UTRN subnetwork	0.54522904	1.163731429
MP:0002085	abnormal embryonic tissue morphology	0.54743192	1.163742816
REACTOME_REPAIR_SYNTHESI	REACTOME_REPAIR_SYNTHESIS_OF_PATCH_27:30_BASES_	0.55976745	1.163749473
ENSG00000079950	STX7 subnetwork	0.54510989	1.16374982
KEGG_STEROID_BIOSYNTHESIS	KEGG_STEROID_BIOSYNTHESIS	0.55904697	1.16375088
GO:0032925	regulation of activin receptor signaling pathway	0.55960202	1.16375334
ENSG00000003393	ALS2 subnetwork	0.54490458	1.163762991
GO:0043240	Fanconi anaemia nuclear complex	0.54473222	1.163768953
ENSG00000127337	YEATS4 subnetwork	0.56099735	1.163769641
ENSG00000160741	CRTC2 subnetwork	0.561556	1.163772077
ENSG00000206255	ENSG00000206255 subnetwork	0.55891148	1.163789948
GO:0030029	actin filament-based process	0.54407839	1.163792106
GO:0034104	negative regulation of tissue remodeling	0.56094348	1.163799635
GO:0009881	photoreceptor activity	0.5450479	1.163802309
GO:0016567	protein ubiquitination	0.90300758	1.163802917
GO:0005201	extracellular matrix structural constituent	0.5573308	1.163805759
ENSG00000170734	POLH subnetwork	0.54083287	1.163814163
MP:0010375	increased kidney iron level	0.55781907	1.163822285
MP:0005156	bradykinesia	0.54485452	1.163822723
GO:0001948	glycoprotein binding	0.54071688	1.163823444
GO:0090218	positive regulation of lipid kinase activity	0.54464541	1.163837932
ENSG00000164258	NDUFS4 subnetwork	0.5445675	1.163839931
ENSG00000170515	PA2G4 subnetwork	0.54613079	1.16384848
GO:0061077	chaperone-mediated protein folding	0.54470529	1.163857597
ENSG00000100968	NFATC4 subnetwork	0.54741333	1.16385975
ENSG00000108296	CWC25 subnetwork	0.55956606	1.163860759
GO:0035112	genitalia morphogenesis	0.55750657	1.163872424
ENSG00000132603	NIP7 subnetwork	0.56180988	1.16387838
MP:0005656	decreased aggression	0.90284417	1.163891113
GO:0001568	blood vessel development	0.90299739	1.163897536
GO:0051208	sequestering of calcium ion	0.54067313	1.163898182
MP:0004613	fusion of vertebral arches	0.55851086	1.163905325
REACTOME_REPAIR_SYNTHESI	REACTOME_REPAIR_SYNTHESIS_FOR_GAP:FILLING_BY_DN.	0.55976745	1.163913105
ENSG00000117906	RCN2 subnetwork	0.56193058	1.163925469
GO:0005761	mitochondrial ribosome	0.56153186	1.163928221
GO:0071219	cellular response to molecule of bacterial origin	0.56092326	1.163934886
ENSG00000131721	RHOXF2 subnetwork	0.55951593	1.163940076
GO:0009925	basal plasma membrane	0.54738247	1.163940788
ENSG00000138162	TACC2 subnetwork	0.55933269	1.163943999
ENSG00000198838	RYR3 subnetwork	0.54441136	1.163945087
MP:0001458	abnormal object recognition memory	0.90295168	1.163952144
ENSG00000206324	AGPAT1 subnetwork	0.55891148	1.163953816

ENSG00000203813	HIST1H3H subnetwork	0.55870717	1.163957746
KEGG_TOLL_LIKE_RECEPTOR_S	KEGG_TOLL_LIKE_RECEPTOR_SIGNALING_PATHWAY	0.55881124	1.163962822
ENSG00000100347	SAMM50 subnetwork	0.55862963	1.163966756
ENSG00000003756	RBM5 subnetwork	0.54611783	1.163987324
GO:0071326	cellular response to monosaccharide stimulus	0.90284365	1.163994662
REACTOME_AMINO_ACID_TRAN	REACTOME_AMINO_ACID_TRANSPORT_ACROSS_THE_PLA	0.55945284	1.163998312
ENSG00000011451	WIZ subnetwork	0.5445562	1.164008091
ENSG00000115310	RTN4 subnetwork	0.54601655	1.164027378
ENSG00000100029	PES1 subnetwork	0.54736436	1.16404341
MP:0004086	absent heartbeat	0.54437384	1.164055499
GO:0051297	centrosome organization	0.54607416	1.164061374
GO:0008093	cytoskeletal adaptor activity	0.5471432	1.164071038
ENSG00000160551	TAOK1 subnetwork	0.54729447	1.164081369
GO:0000313	organellar ribosome	0.56153186	1.164091419
GO:0071333	cellular response to glucose stimulus	0.90284365	1.164098229
GO:0005792	microsome	0.56145261	1.164100407
ENSG00000082781	ITGB5 subnetwork	0.54661812	1.164106809
ENSG00000169727	GPS1 subnetwork	0.54685707	1.164107914
REACTOME_TRANSPORT_OF_F	REACTOME_TRANSPORT_OF_RIBONUCLEOPROTEINS_INTC	0.56134388	1.164109397
ENSG00000105220	GPI subnetwork	0.54678651	1.16413153
ENSG00000132825	PPP1R3D subnetwork	0.56127953	1.16413943
ENSG00000131508	UBE2D2 subnetwork	0.54431782	1.164144261
GO:0071108	protein K48-linked deubiquitination	0.54725555	1.164162473
GO:0071331	cellular response to hexose stimulus	0.90284365	1.164201815
GO:0032319	regulation of Rho GTPase activity	0.90273646	1.164207529
GO:0015036	disulfide oxidoreductase activity	0.90267702	1.164217693
GO:0035066	positive regulation of histone acetylation	0.54713422	1.164224076
GO:0051010	microtubule plus-end binding	0.54676657	1.164241508
GO:0016798	hydrolase activity, acting on glycosyl bonds	0.54659954	1.164267204
MP:0006319	abnormal epididymal fat pad morphology	0.90265234	1.164272363
GO:0015711	organic anion transport	0.54707542	1.164276467
ENSG00000163362	C1orf106 subnetwork	0.54703391	1.16436484
GO:0048598	embryonic morphogenesis	0.9023415	1.16437539
MP:0005296	abnormal humerus morphology	0.9026447	1.164376001
GO:0007141	male meiosis I	0.54658794	1.164406048
ENSG00000196914	ARHGEF12 subnetwork	0.54651603	1.164408122
GO:0002685	regulation of leukocyte migration	0.9025962	1.164412891
ENSG00000075891	PAX2 subnetwork	0.90231036	1.164430098
MP:0008033	impaired lipolysis	0.90248828	1.164436432
GO:0010976	positive regulation of neuron projection development	0.90229515	1.164515985
GO:0004690	cyclic nucleotide-dependent protein kinase activity	0.90224668	1.16456181
ENSG00000196584	XRCC2 subnetwork	0.90224578	1.164665538
GO:0048247	lymphocyte chemotaxis	0.56314084	1.164694363
GO:0033059	cellular pigmentation	0.90220656	1.1647292
ENSG00000060339	CCAR1 subnetwork	0.56360086	1.164746995
ENSG00000102312	PORCN subnetwork	0.563543	1.164763036
GO:0046851	negative regulation of bone remodeling	0.56309827	1.164794348
ENSG00000142871	CYR61 subnetwork	0.90219152	1.16481069
MP:0010386	abnormal urinary bladder physiology	0.56307775	1.164852386
GO:0006575	cellular modified amino acid metabolic process	0.563748	1.16487072
ENSG00000142731	PLK4 subnetwork	0.56348306	1.164876957
GO:0030204	chondroitin sulfate metabolic process	0.90216739	1.16489665
ENSG00000139514	SLC7A1 subnetwork	0.56342208	1.164913998

ENSG00000121892	PDS5A subnetwork	0.56306708	1.164994402
MP:0003656	abnormal erythrocyte physiology	0.90216525	1.16499599
ENSG00000197299	BLM subnetwork	0.56339414	1.165
ENSG00000138675	FGF5 subnetwork	0.90165325	1.165021842
GO:0048643	positive regulation of skeletal muscle tissue development	0.90210555	1.16502406
GO:0009161	ribonucleoside monophosphate metabolic process	0.56302121	1.165031491
GO:0004859	phospholipase inhibitor activity	0.90200884	1.165061046
GO:0070534	protein K63-linked ubiquitination	0.5640455	1.165090122
MP:0006143	increased systemic arterial diastolic blood pressure	0.90140249	1.165094087
MP:0010099	abnormal thoracic cage shape	0.90162006	1.165094508
ENSG00000105968	H2AFV subnetwork	0.56412531	1.165094999
REACTOME_PI3K_CASCADE	REACTOME_PI3K_CASCADE	0.90198634	1.165106952
ENSG00000177791	MYOZ1 subnetwork	0.90134312	1.165113271
ENSG00000203814	HIST2H2BF subnetwork	0.56256933	1.165114162
ENSG00000169371	SNUPN subnetwork	0.56299167	1.165152576
GO:0003382	epithelial cell morphogenesis	0.90157804	1.165153812
GO:0043631	RNA polyadenylation	0.56433576	1.165167598
GO:0008156	negative regulation of DNA replication	0.90153219	1.165177457
REACTOME_CHYLOMICRON:M	REACTOME_CHYLOMICRON:MEDIATED_LIPID_TRANSPORT	0.90122473	1.165182872
MP:0004924	abnormal behavior	0.90196693	1.165188519
MP:0005409	darkened coat color	0.90132721	1.165199358
GO:0045178	basal part of cell	0.56272676	1.165210084
GO:0051050	positive regulation of transport	0.56295652	1.165238695
MP:0006359	absent startle reflex	0.56404256	1.16523896
ENSG00000107949	BCCIP subnetwork	0.90191868	1.165247816
MP:0001005	abnormal retinal rod cell morphology	0.90110693	1.165252498
ENSG00000198681	MAGEA1 subnetwork	0.56431394	1.165253527
MP:0000547	short limbs	0.90117781	1.165260059
ENSG00000158161	EYA3 subnetwork	0.90105756	1.165267244
GO:0006704	glucocorticoid biosynthetic process	0.90103178	1.16534892
GO:0005614	interstitial matrix	0.56287721	1.165354992
ENSG00000090054	SPTLC1 subnetwork	0.56293426	1.165373845
GO:0060325	face morphogenesis	0.90094783	1.165385988
ENSG00000151743	AMN1 subnetwork	0.90087134	1.165387362
MP:0009887	abnormal palatal shelf fusion at midline	0.9008703	1.165491386
ENSG00000183495	EP400 subnetwork	0.9007725	1.165561111
ENSG00000111275	ALDH2 subnetwork	0.56458425	1.165563469
GO:0001533	cornified envelope	0.90086102	1.165586502
ENSG00000182754	ENSG00000182754 subnetwork	0.90017823	1.165588708
MP:0000372	irregular coat pigmentation	0.56467551	1.165603183
GO:0014066	regulation of phosphatidylinositol 3-kinase cascade	0.90062745	1.165613001
MP:0010029	abnormal basicranium morphology	0.90051693	1.165618861
GO:0051650	establishment of vesicle localization	0.90073892	1.165638393
ENSG00000118523	CTGF subnetwork	0.89995361	1.165664373
GO:0072087	renal vesicle development	0.90034027	1.165672175
ENSG00000169139	UBE2V2 subnetwork	0.90049867	1.165691703
ENSG00000163682	RPL9 subnetwork	0.90017823	1.165692844
MP:0002948	abnormal neuron specification	0.89993408	1.165737265
MP:0002115	abnormal limb bone morphology	0.9004516	1.165746695
ENSG00000120708	TGFBI subnetwork	0.89983087	1.165747609
GO:0009069	serine family amino acid metabolic process	0.90012605	1.165747856
GO:0030139	endocytic vesicle	0.8997642	1.165762424
ENSG00000108590	MED31 subnetwork	0.56499089	1.165792045

GO:0017075	syntaxin-1 binding	0.89947869	1.165799356
ENSG00000146047	HIST1H2BA subnetwork	0.8987934	1.165855404
REACTOME_INTERACTION_BETWEEN_L1_AND_ANKYRINS	REACTOME_INTERACTION_BETWEEN_L1_AND_ANKYRINS	0.89976198	1.165857692
ENSG00000018236	CNTN1 subnetwork	0.89896974	1.165861514
GO:0050912	detection of chemical stimulus involved in sensory perception	0.89927977	1.165870673
GO:0019861	flagellum	0.89917757	1.165876565
GO:0030238	male sex determination	0.89944927	1.165876777
MP:0003130	anal atresia	0.89910908	1.165882458
GO:0006650	glycerophospholipid metabolic process	0.56495526	1.165905918
REACTOME_INSULIN_RECEPTOR_RECYCLING	REACTOME_INSULIN_RECEPTOR_RECYCLING	0.89863747	1.165907464
ENSG00000135249	RINT1 subnetwork	0.8996391	1.165914171
GO:0045026	plasma membrane fusion	0.89895194	1.165934508
ENSG00000104419	NDRG1 subnetwork	0.89876933	1.16593736
ENSG00000074590	NUAK1 subnetwork	0.89975586	1.165939567
ENSG00000100632	ERH subnetwork	0.8994195	1.165940798
GO:0031648	protein destabilization	0.89858897	1.165962588
MP:0010182	decreased susceptibility to weight gain	0.56551596	1.165997211
ENSG00000071082	RPL31 subnetwork	0.56492348	1.165998883
GO:0006721	terpenoid metabolic process	0.89857586	1.166058002
ENSG00000164171	ITGA2 subnetwork	0.89850966	1.166081819
MP:0001303	abnormal lens morphology	0.89844583	1.166092211
ENSG00000183963	SMTN subnetwork	0.56549991	1.166118008
MP:0005191	head tilt	0.56565229	1.16613443
GO:0005484	SNAP receptor activity	0.89838189	1.166142896
ENSG00000120265	PCMT1 subnetwork	0.56527294	1.16619453
ENSG00000116329	OPRD1 subnetwork	0.565342	1.166206223
GO:0044349	DNA excision	0.8982005	1.166217426
REACTOME_GRB2_EVENTS_IN_ERBB2_SIGNALING	REACTOME_GRB2_EVENTS_IN_ERBB2_SIGNALING	0.56547559	1.166224888
GO:0019841	retinol binding	0.8983616	1.166229405
GO:0000718	nucleotide-excision repair, DNA damage removal	0.8982005	1.16632187
MP:0000750	abnormal muscle regeneration	0.5658575	1.166362242
MP:0008128	abnormal brain internal capsule morphology	0.89810758	1.166391974
GO:0022900	electron transport chain	0.89819893	1.166426332
GO:0030057	desmosome	0.89806577	1.166447192
GO:0016471	vacuolar proton-transporting V-type ATPase complex	0.56645044	1.166515743
ENSG00000067533	RRP15 subnetwork	0.89805973	1.166547214
REACTOME_GAP_FILLING_DNA_REPAIR_SYNTHESIS_AND_L	REACTOME_GAP_FILLING_DNA_REPAIR_SYNTHESIS_AND_L	0.56642751	1.166629511
ENSG00000166598	HSP90B1 subnetwork	0.56608667	1.166631814
ENSG00000112038	OPRM1 subnetwork	0.89804322	1.166642774
ENSG00000108559	NUP88 subnetwork	0.56620678	1.166713131
MP:0001056	abnormal cranial nerve morphology	0.8980262	1.166747312
ENSG00000138175	ARL3 subnetwork	0.56713224	1.166773385
REACTOME_GAP_FILLING_DNA_REPAIR_SYNTHESIS_AND_L	REACTOME_GAP_FILLING_DNA_REPAIR_SYNTHESIS_AND_L	0.56642751	1.166792085
ENSG00000110237	ARHGEF17 subnetwork	0.56696284	1.166812865
GO:0050771	negative regulation of axonogenesis	0.89801718	1.166833946
REACTOME_NCAM_SIGNALING_FOR_NEURITE_OUTGROWTH	REACTOME_NCAM_SIGNALING_FOR_NEURITE_OUTGROWTH	0.89757688	1.166837009
ENSG00000147416	ATP6V1B2 subnetwork	0.89769824	1.16687584
MP:0003849	greasy coat	0.5671091	1.166894055
GO:0034405	response to fluid shear stress	0.89798833	1.166907152
MP:0001081	abnormal cranial ganglia morphology	0.89722181	1.166911831
GO:0045137	development of primary sexual characteristics	0.89781264	1.166919147
ENSG00000167526	RPL13 subnetwork	0.56683695	1.166928969
ENSG00000100299	ARSA subnetwork	0.56642003	1.166940767

GO:0000978	RNA polymerase II core promoter proximal region sequence	0.89757612	1.16694163
GO:0070528	protein kinase C signaling cascade	0.89792704	1.166944519
ENSG00000116750	UCHL5 subnetwork	0.56692294	1.1669475
ENSG00000078053	AMPH subnetwork	0.89748947	1.166947633
ENSG00000211614	ENSG00000211614 subnetwork	0.89738513	1.166962604
MP:0009593	absent chorion	0.56679571	1.167000975
GO:0051817	modification of morphology or physiology of other organism	0.89720078	1.16700305
ENSG00000165410	CFL2 subnetwork	0.56731499	1.167007655
ENSG00000165688	PMPCA subnetwork	0.89735132	1.16703139
ENSG00000117385	LEPRE1 subnetwork	0.8964679	1.167048209
ENSG00000038382	TRIO subnetwork	0.89637391	1.167063207
ENSG00000172062	SMN1 subnetwork	0.89621341	1.167066272
GO:0035821	modification of morphology or physiology of other organism	0.89720078	1.167107742
GO:0051444	negative regulation of ubiquitin-protein ligase activity	0.89685741	1.167113883
MP:0009146	abnormal pancreatic acinar cell morphology	0.89693294	1.167116834
ENSG00000128683	GAD1 subnetwork	0.89632183	1.167123103
MP:0001905	abnormal dopamine level	0.89703144	1.16713773
ENSG00000137124	ALDH1B1 subnetwork	0.89711929	1.16714965
ENSG00000205571	SMN2 subnetwork	0.89621341	1.167171082
GO:0051352	negative regulation of ligase activity	0.89685741	1.167218632
GO:0010721	negative regulation of cell development	0.89681402	1.167265057
ENSG00000159228	CBR1 subnetwork	0.89620271	1.167271421
MP:0000097	short maxilla	0.8960107	1.167283507
MP:0004007	abnormal lung vasculature morphology	0.89674563	1.16728456
GO:0006760	folic acid-containing compound metabolic process	0.89613434	1.167313393
ENSG00000144908	ALDH1L1 subnetwork	0.56796736	1.167352614
MP:0000751	myopathy	0.89593079	1.167380952
ENSG00000158169	FANCC subnetwork	0.89600606	1.167383883
GO:0015301	anion:anion antiporter activity	0.56770924	1.167404007
REACTOME_G_ALPHA_I_SIGNALING_EVENTS	REACTOME_G_ALPHA_I_SIGNALING_EVENTS	0.56793599	1.167417605
GO:0045931	positive regulation of mitotic cell cycle	0.89583267	1.16746046
ENSG00000183785	TUBA8 subnetwork	0.56813717	1.167461421
ENSG00000184895	SRY subnetwork	0.89592445	1.167476862
GO:0010564	regulation of cell cycle process	0.5676831	1.167489912
ENSG00000145321	GC subnetwork	0.89580058	1.167497978
GO:0009119	ribonucleoside metabolic process	0.89566691	1.167546067
ENSG00000169213	RAB3B subnetwork	0.56791678	1.16755911
GO:0006367	transcription initiation from RNA polymerase II promoter	0.89559009	1.167561129
MP:0008392	decreased primordial germ cell number	0.89579004	1.167598418
MP:0000729	abnormal myogenesis	0.56764377	1.167603674
ENSG00000088179	PTPN4 subnetwork	0.56786007	1.167617193
GO:0008353	RNA polymerase II carboxy-terminal domain kinase activity	0.89558045	1.167652612
ENSG00000214717	ZBED1 subnetwork	0.89551325	1.167676677
GO:0017046	peptide hormone binding	0.89545999	1.167727722
MP:0001447	abnormal nest building behavior	0.89527241	1.167768484
ENSG00000166483	WEE1 subnetwork	0.89538196	1.167798363
GO:0032845	negative regulation of homeostatic process	0.8954496	1.167805755
ENSG00000111711	GOLT1B subnetwork	0.89526136	1.167860034
GO:0019217	regulation of fatty acid metabolic process	0.89521847	1.167920115
MP:0001548	hyperlipidemia	0.8951801	1.16797121
GO:0008195	phosphatidate phosphatase activity	0.89501926	1.167983443
ENSG00000137975	CLCA2 subnetwork	0.89512542	1.168008818
GO:0044441	cilium part	0.56913032	1.168015829

MP:0000556	abnormal hindlimb morphology	0.89428588	1.168052053
GO:0071855	neuropeptide receptor binding	0.89501076	1.168075054
MP:0000418	focal hair loss	0.89494043	1.168108181
GO:0070303	negative regulation of stress-activated protein kinase signal	0.56859721	1.168116748
ENSG00000169783	LINGO1 subnetwork	0.89467097	1.168122074
ENSG00000143106	PSMA5 subnetwork	0.56911263	1.168143313
MP:0011423	kidney cortex atrophy	0.89428268	1.168148248
ENSG00000139190	VAMP1 subnetwork	0.89478175	1.168160951
MP:0001706	abnormal left-right axis patterning	0.5685405	1.168181818
GO:0033344	cholesterol efflux	0.89462678	1.168182227
ENSG00000136888	ATP6V1G1 subnetwork	0.89490585	1.168186319
ENSG00000163520	FBLN2 subnetwork	0.56945598	1.168202637
ENSG00000143379	SETDB1 subnetwork	0.894266	1.168235453
GO:0019866	organelle inner membrane	0.5717987	1.168249689
MP:0001179	thick pulmonary interalveolar septum	0.56908248	1.168256944
MP:0001731	abnormal postnatal growth	0.56900976	1.16825948
ENSG00000127564	PKMYT1 subnetwork	0.8946077	1.168269404
ENSG00000185825	BCAP31 subnetwork	0.57169546	1.16828931
MP:0009655	abnormal secondary palate development	0.56941577	1.168295391
GO:0006071	glycerol metabolic process	0.56887243	1.168313186
REACTOME_PYRUVATE_METABOLISM	REACTOME_PYRUVATE_METABOLISM	0.56877336	1.168315731
ENSG00000173406	DAB1 subnetwork	0.89455833	1.168316074
GO:0072404	signal transduction involved in G1/S transition checkpoint	0.57141524	1.168320188
GO:0016101	diterpenoid metabolic process	0.89425268	1.168327178
REACTOME_MRNA_SPLICING_MAJOR_PATHWAY	REACTOME_MRNA_SPLICING_MAJOR_PATHWAY	0.57208008	1.168338861
ENSG00000119392	GLE1 subnetwork	0.57165112	1.168347165
REACTOME_NUCLEAR_IMPORT_OF_REV_PROTEIN	REACTOME_NUCLEAR_IMPORT_OF_REV_PROTEIN	0.57156347	1.168349703
REACTOME_ANDROGEN_BIOSYNTHESIS	REACTOME_ANDROGEN_BIOSYNTHESIS	0.56896607	1.168373159
GO:0032480	negative regulation of type I interferon production	0.571954	1.168392314
GO:0044449	contractile fiber part	0.89423488	1.168396396
MP:0004374	bowed radius	0.57178987	1.1683974
GO:0016591	DNA-directed RNA polymerase II, holoenzyme	0.57007121	1.168409375
ENSG00000177084	POLE subnetwork	0.56970984	1.168412654
ENSG00000144028	SNRNP200 subnetwork	0.5715164	1.168428334
MP:0001785	edema	0.89414888	1.168429588
GO:0034976	response to endoplasmic reticulum stress	0.56941201	1.168443704
ENSG00000137403	HLA-F subnetwork	0.57027678	1.168459725
MP:0000764	abnormal tongue epithelium morphology	0.57001148	1.168474341
GO:0072395	signal transduction involved in cell cycle checkpoint	0.57141524	1.168481871
GO:0030521	androgen receptor signaling pathway	0.56967073	1.168484596
MP:0002837	dystrophic cardiac calcinosis	0.89411722	1.168485313
REACTOME_MRNA_SPLICING	REACTOME_MRNA_SPLICING	0.57208008	1.168500346
ENSG00000085415	SEH1L subnetwork	0.89405816	1.168532036
MP:0011083	complete lethality at weaning	0.57137574	1.168574394
GO:0006270	DNA-dependent DNA replication initiation	0.57120888	1.16858646
GO:0019842	vitamin binding	0.57067363	1.168601912
GO:0016042	lipid catabolic process	0.57026676	1.168607876
ENSG00000148334	PTGES2 subnetwork	0.8940266	1.16861031
GO:0007339	binding of sperm to zona pellucida	0.56999942	1.168629491
GO:0007006	mitochondrial membrane organization	0.56993356	1.168659822
GO:0042776	mitochondrial ATP synthesis coupled proton transport	0.89402114	1.168711131
ENSG00000075624	ACTB subnetwork	0.57118709	1.168713653
ENSG00000119772	DNMT3A subnetwork	0.57135691	1.168722315

ENSG00000185420	SMYD3 subnetwork	0.57066583	1.168729213
MP:0000084	abnormal fontanelle morphology	0.89400812	1.168789436
ENSG00000133316	WDR74 subnetwork	0.57104492	1.168795014
MP:0004522	abnormal orientation of cochlear hair cell stereociliary bundle	0.57115797	1.16880626
GO:0042119	neutrophil activation	0.89395429	1.168822681
ENSG00000128692	ENSG00000128692 subnetwork	0.57093535	1.168839174
GO:0010677	negative regulation of cellular carbohydrate metabolic process	0.89389973	1.168846917
GO:0060122	inner ear receptor stereocilium organization	0.57065302	1.168870409
GO:0045912	negative regulation of carbohydrate metabolic process	0.89389973	1.168952304
ENSG00000171357	C1orf190 subnetwork	0.57090621	1.1689734
GO:0031640	killing of cells of other organism	0.57063206	1.16898392
ENSG00000067369	TP53BP1 subnetwork	0.57269891	1.169046961
REACTOME_PLATELET_HOMEOSTASIS	REACTOME_PLATELET_HOMEOSTASIS	0.89389261	1.169053201
MP:0004567	decreased myocardial fiber number	0.89381074	1.169054919
ENSG00000186847	KRT14 subnetwork	0.57253071	1.169093672
MP:0009413	skeletal muscle fiber atrophy	0.89378037	1.169133297
GO:0045309	protein phosphorylated amino acid binding	0.5726386	1.169139384
GO:0004065	arylsulfatase activity	0.57321372	1.169169197
ENSG00000122966	CIT subnetwork	0.57351523	1.169202649
ENSG00000110436	SLC1A2 subnetwork	0.89375883	1.169216199
ENSG00000077380	DYNC1I2 subnetwork	0.57251148	1.169220672
ENSG00000133398	MED10 subnetwork	0.57342402	1.16923979
GO:0016408	C-acyltransferase activity	0.5733705	1.169256244
GO:0043330	response to exogenous dsRNA	0.57365038	1.169303448
MP:0004777	abnormal phospholipid level	0.89373295	1.169308136
ENSG00000163159	VPS72 subnetwork	0.57320183	1.169330573
MP:0000552	abnormal radius morphology	0.89372121	1.169413622
ENSG00000174123	TLR10 subnetwork	0.89316482	1.169434916
ENSG00000187558	ENSG00000187558 subnetwork	0.89306615	1.169441184
ENSG00000167645	YIF1B subnetwork	0.57380978	1.169459385
MP:0001666	abnormal intestinal absorption	0.89360699	1.169484797
ENSG00000114480	GBE1 subnetwork	0.57319276	1.169485091
ENSG00000151150	ANK3 subnetwork	0.89371069	1.169505594
ENSG00000184203	PPP1R2 subnetwork	0.89306615	1.169546768
ENSG00000182054	IDH2 subnetwork	0.89358408	1.169572279
GO:0032769	negative regulation of monooxygenase activity	0.89274286	1.169580925
GO:0008206	bile acid metabolic process	0.89350856	1.169587582
ENSG00000158773	USF1 subnetwork	0.57318126	1.169625846
ENSG00000056345	ENSG00000056345 subnetwork	0.89346103	1.169634477
ENSG00000129810	SGOL1 subnetwork	0.8926908	1.169636889
ENSG00000114850	SSR3 subnetwork	0.89305582	1.169647856
ENSG00000132507	EIF5A subnetwork	0.89341238	1.169672353
MP:0001353	increased aggression towards mice	0.89299136	1.16967672
GO:0048753	pigment granule organization	0.89290901	1.169683013
KEGG_ASCORBATE_AND_ALDARATE_METABOLISM	KEGG_ASCORBATE_AND_ALDARATE_METABOLISM	0.89266231	1.169706414
ENSG00000156076	WIF1 subnetwork	0.57414649	1.169720154
MP:0003355	decreased ovulation rate	0.57314576	1.169725214
ENSG00000119638	NEK9 subnetwork	0.57420937	1.169738112
ENSG00000126432	PRDX5 subnetwork	0.57308412	1.169762464
ENSG00000162992	NEUROD1 subnetwork	0.89264211	1.169789502
ENSG00000181029	TRAPPC5 subnetwork	0.57411038	1.169812491
ENSG00000172845	SP3 subnetwork	0.89262212	1.169886158
ENSG00000143418	CERS2 subnetwork	0.89225516	1.169917744

GO:0033138	positive regulation of peptidyl-serine phosphorylation	0.57409129	1.169925538
ENSG00000197535	MYO5A subnetwork	0.57699319	1.169947867
ENSG00000197976	AKAP17A subnetwork	0.89258694	1.169951206
GO:0005743	mitochondrial inner membrane	0.5770475	1.169951989
GO:0001667	ameboidal cell migration	0.89243191	1.169981925
ENSG00000107438	PDLIM1 subnetwork	0.89239886	1.170006327
MP:0001286	abnormal eye development	0.8922501	1.170009944
ENSG00000112306	RPS12 subnetwork	0.89255586	1.170025303
ENSG00000183943	PRKX subnetwork	0.57719438	1.170031546
ENSG00000115252	PDE1A subnetwork	0.5769896	1.170101537
KEGG_RIBOSOME	KEGG_RIBOSOME	0.89223091	1.170106681
GO:0006119	oxidative phosphorylation	0.89219852	1.170180832
GO:0071418	cellular response to amine stimulus	0.57461788	1.170208075
GO:0003170	heart valve development	0.57731304	1.170234504
ENSG00000158691	ZSCAN12 subnetwork	0.57587396	1.170246116
ENSG00000162244	RPL29 subnetwork	0.57697544	1.170248388
ENSG00000148798	INA subnetwork	0.89219802	1.170286644
ENSG00000119401	TRIM32 subnetwork	0.57567924	1.170288858
GO:0042598	vesicular fraction	0.5757714	1.170292945
GO:0018410	C-terminal protein amino acid modification	0.57458868	1.170321114
REACTOME_PLATELET_SENSITIZATION_BY_LD	REACTOME_PLATELET_SENSITIZATION_BY_LD	0.57694803	1.170326654
ENSG00000131981	LGALS3 subnetwork	0.89218425	1.170383433
ENSG00000131469	RPL27 subnetwork	0.57689175	1.170384351
GO:0045335	phagocytic vesicle	0.57586864	1.170393289
ENSG00000075239	ACAT1 subnetwork	0.57764238	1.170404387
MP:0000445	short snout	0.57567626	1.170449856
GO:0006099	tricarboxylic acid cycle	0.57481659	1.170453293
MP:0000159	abnormal xiphoid process morphology	0.57684208	1.170462658
REACTOME_GRB2SOS_PROVIDES_LINKAGE_TO_MAPK_SIG	REACTOME_GRB2SOS_PROVIDES_LINKAGE_TO_MAPK_SIG	0.577485	1.170471685
KEGG_VASCULAR_SMOOTH_MUSCLE_CONTRACTION	KEGG_VASCULAR_SMOOTH_MUSCLE_CONTRACTION	0.57758327	1.170475733
GO:0061138	morphogenesis of a branching epithelium	0.57777973	1.170476974
ENSG00000099624	ATP5D subnetwork	0.892184	1.170489283
ENSG00000075188	NUP37 subnetwork	0.89214226	1.17053636
ENSG00000165023	DIRAS2 subnetwork	0.57521923	1.170542476
GO:0060347	heart trabecula formation	0.57508295	1.170575678
GO:0048729	tissue morphogenesis	0.57791198	1.170590654
ENSG00000181856	SLC2A4 subnetwork	0.57682226	1.170602774
MP:0006396	decreased long bone epiphyseal plate size	0.57567507	1.170610897
ENSG00000069702	TGFBR3 subnetwork	0.57516668	1.170627926
GO:0060612	adipose tissue development	0.89213638	1.170628675
REACTOME_TRANSPORT_OF_MATURE_MRNA_DERIVED_FROM	REACTOME_TRANSPORT_OF_MATURE_MRNA_DERIVED_FROM	0.57865865	1.170633726
GO:0048041	focal adhesion assembly	0.5755868	1.170641255
GO:0008320	protein transmembrane transporter activity	0.89208065	1.170648634
ENSG00000106397	PLOD3 subnetwork	0.89155919	1.170661718
MP:0003303	peritoneal inflammation	0.57550013	1.170671621
REACTOME_TRANSFERRIN_ENDOCYTOSIS_AND_RECYCLING	REACTOME_TRANSFERRIN_ENDOCYTOSIS_AND_RECYCLING	0.89147676	1.170677168
KEGG_RENAL_CELL_CARCINOMA	KEGG_RENAL_CELL_CARCINOMA	0.57506322	1.170716253
REACTOME_MITOCHONDRIAL_TRNA_AMINOACYLATION	REACTOME_MITOCHONDRIAL_TRNA_AMINOACYLATION	0.57863775	1.170732375
ENSG00000100288	CHKB subnetwork	0.57500548	1.170732883
GO:0022884	macromolecule transmembrane transporter activity	0.89208065	1.170754546
GO:0048566	embryonic digestive tract development	0.8916792	1.170754888
ENSG00000189229	ENSG00000189229 subnetwork	0.57681147	1.17075666
ENSG00000110321	EIF4G2 subnetwork	0.89199633	1.170765472

GO:0080008	CUL4 RING ubiquitin ligase complex	0.57547398	1.170770819
ENSG00000162385	MAGOH subnetwork	0.57816623	1.170776819
ENSG00000106617	PRKAG2 subnetwork	0.89183979	1.170778281
ENSG00000196531	NACA subnetwork	0.89147305	1.17078316
GO:0050840	extracellular matrix binding	0.57542835	1.170801211
ENSG00000156113	KCNMA1 subnetwork	0.89141753	1.170807678
ENSG00000037965	HOXC8 subnetwork	0.89195525	1.170817121
MP:0002823	abnormal rib development	0.57845094	1.17082991
GO:0002792	negative regulation of peptide secretion	0.89179928	1.170829939
GO:0072511	divalent inorganic cation transport	0.57828114	1.170842466
GO:0050830	defense response to Gram-positive bacterium	0.5766056	1.170881989
ENSG00000106803	SEC61B subnetwork	0.57655902	1.170884858
ENSG00000161647	MPP3 subnetwork	0.89124048	1.170885789
GO:0008340	determination of adult lifespan	0.89139402	1.170891062
ENSG00000105464	GRIN2D subnetwork	0.5786354	1.170892662
GO:0043492	ATPase activity, coupled to movement of substances	0.57679136	1.170903722
ENSG00000197170	PSMD12 subnetwork	0.57814871	1.170909838
GO:0045671	negative regulation of osteoclast differentiation	0.89132392	1.170933708
REACTOME_HDL:MEDIATED_LI	REACTOME_HDL:MEDIATED_LIPID_TRANSPORT	0.57840824	1.170935488
GO:0045833	negative regulation of lipid metabolic process	0.57674264	1.170975275
GO:0031253	cell projection membrane	0.89123747	1.170991848
ENSG00000151923	TIAL1 subnetwork	0.57639034	1.171003436
REACTOME_SIGNALING_BY_RC	REACTOME_SIGNALING_BY_ROBO_RECEPTOR	0.57909761	1.171004379
ENSG00000197930	ERO1L subnetwork	0.57862141	1.171025606
ENSG00000126351	THRA subnetwork	0.57655067	1.171032019
GO:0060562	epithelial tube morphogenesis	0.57633589	1.171033819
REACTOME_PLATELET_ADHESI	REACTOME_PLATELET_ADHESION_TO_EXPOSED_COLLAGE	0.89123182	1.171093396
MP:0005123	increased circulating growth hormone level	0.57969781	1.171114149
GO:0048266	behavioral response to pain	0.5790859	1.171137266
ENSG00000156931	VPS8 subnetwork	0.89089558	1.17113729
GO:0043523	regulation of neuron apoptotic process	0.89121599	1.171172314
ENSG00000127920	GNG11 subnetwork	0.89056237	1.171190282
GO:0033631	cell-cell adhesion mediated by integrin	0.57654973	1.171192963
GO:0051385	response to mineralocorticoid stimulus	0.89047974	1.171196736
GO:0046888	negative regulation of hormone secretion	0.89087941	1.171211709
REACTOME_Glutathione_CC	REACTOME_Glutathione_CONJUGATION	0.8911501	1.171219534
GO:0006400	tRNA modification	0.57969512	1.171260596
REACTOME_SIGNAL_REGULATI	REACTOME_SIGNAL_REGULATORY_PROTEIN_SIRP_FAMILY	0.89083704	1.171286142
GO:0001542	ovulation from ovarian follicle	0.89047007	1.171289328
MP:0004769	abnormal synaptic vesicle morphology	0.89110915	1.171289416
ENSG00000171241	SHCBP1 subnetwork	0.57932897	1.171336708
REACTOME_MITOTIC_G2:G2M	REACTOME_MITOTIC_G2:G2M_PHASES	0.89080691	1.171360587
GO:0008217	regulation of blood pressure	0.89045584	1.171391005
GO:0048010	vascular endothelial growth factor receptor signaling pathw	0.89037291	1.171402013
REACTOME_CLASS_A1_RHODC	REACTOME_CLASS_A1_RHODOPSIN:LIKE_RECEPTORS	0.57968593	1.17141392
MP:0002663	failure to form blastocoele	0.58017663	1.171474447
ENSG00000136026	CKAP4 subnetwork	0.58024774	1.171492007
ENSG00000091140	DLD subnetwork	0.8900833	1.171493377
ENSG00000091129	NRCAM subnetwork	0.89036229	1.171494649
GO:0021952	central nervous system projection neuron axonogenesis	0.89000549	1.171527085
GO:0060395	SMAD protein signal transduction	0.57966543	1.171539934
GO:0016254	preassembly of GPI anchor in ER membrane	0.58035695	1.171557377
ENSG00000159217	IGF2BP1 subnetwork	0.89024864	1.171580189

ENSG00000084733	RAB10 subnetwork	0.89035575	1.171591837
ENSG00000198523	PLN subnetwork	0.58014104	1.171600383
GO:0009086	methionine biosynthetic process	0.88997976	1.171601633
ENSG00000172809	RPL38 subnetwork	0.89022061	1.171650186
ENSG00000171564	FGB subnetwork	0.57965288	1.171700178
GO:0014046	dopamine secretion	0.88997964	1.171707959
MP:0004402	decreased cochlear outer hair cell number	0.58012848	1.171740022
GO:0005149	interleukin-1 receptor binding	0.57959196	1.171744186
GO:0014059	regulation of dopamine secretion	0.88997964	1.171814304
MP:0002693	abnormal pancreas physiology	0.88978747	1.171856559
MP:0005435	hemoperitoneum	0.88995714	1.171870745
ENSG00000138398	PPIG subnetwork	0.88991701	1.171931736
REACTOME_REGULATION_OF_	REACTOME_REGULATION_OF_MITOTIC_CELL_CYCLE	0.88977691	1.171949337
ENSG00000012963	UBR7 subnetwork	0.58068284	1.172052998
REACTOME_APCC:MEDIATED_	REACTOME_APCC:MEDIATED_DEGRADATION_OF_CELL_CY	0.88977691	1.172055752
GO:0006949	syncytium formation	0.88962585	1.172082463
GO:0010498	proteasomal protein catabolic process	0.88970171	1.172084998
GO:0006103	2-oxoglutarate metabolic process	0.58076774	1.17213876
GO:0031497	chromatin assembly	0.889597	1.172148047
GO:0035115	embryonic forelimb morphogenesis	0.88950908	1.172150059
GO:0008252	nucleotidase activity	0.88950853	1.172251999
GO:0051453	regulation of intracellular pH	0.88946384	1.172276733
ENSG00000175224	ATG13 subnetwork	0.58090957	1.172299604
ENSG00000174780	SRP72 subnetwork	0.88942891	1.172342359
ENSG00000160752	FDPS subnetwork	0.88926567	1.172369138
MP:0005172	reduced eye pigmentation	0.889118	1.172391383
GO:0030728	ovulation	0.88939834	1.17239891
ENSG00000155363	MOV10 subnetwork	0.88905813	1.172425234
MP:0009750	impaired behavioral response to addictive substance	0.88923763	1.172439335
GO:0038032	termination of G-protein coupled receptor signaling pathw:	0.8889927	1.172468182
GO:0021915	neural tube development	0.88891927	1.172488408
REACTOME_G2M_TRANSITION	REACTOME_G2M_TRANSITION	0.88891262	1.172585925
GO:0030705	cytoskeleton-dependent intracellular transport	0.58127556	1.172634812
MP:0003993	abnormal ventral spinal root morphology	0.88888514	1.172678912
ENSG00000138101	DTNB subnetwork	0.58125302	1.17275396
REACTOME_EUKARYOTIC_TRA	REACTOME_EUKARYOTIC_TRANSLATION_ELONGATION	0.88887494	1.172781011
MP:0003797	abnormal compact bone morphology	0.58144257	1.172822823
ENSG00000136824	SMC2 subnetwork	0.88874583	1.172830635
ENSG00000140416	TPM1 subnetwork	0.88886751	1.172855844
MP:0002989	small kidney	0.88869813	1.172873647
MP:0003047	abnormal thoracic vertebrae morphology	0.88863623	1.172893923
GO:0016854	racemase and epimerase activity	0.8878215	1.172937534
GO:0043303	mast cell degranulation	0.8879859	1.172969774
ENSG00000132693	CRP subnetwork	0.88861493	1.172973342
GO:0050650	chondroitin sulfate proteoglycan biosynthetic process	0.88794047	1.173003733
GO:0006893	Golgi to plasma membrane transport	0.88780575	1.173026136
ENSG00000132485	ZRANB2 subnetwork	0.58165506	1.173038078
MP:0002058	neonatal lethality	0.88858491	1.173039126
ENSG00000145348	TBCK subnetwork	0.88842706	1.17304332
ENSG00000076356	PLXNA2 subnetwork	0.88836363	1.173081824
GO:0000987	core promoter proximal region sequence-specific DNA bind	0.88765499	1.173094089
GO:0032897	negative regulation of viral transcription	0.88777644	1.173114754
MP:0001312	abnormal cornea morphology	0.88833397	1.173124886

GO:0016651	oxidoreductase activity, acting on NADH or NADPH	0.88856203	1.173132223
ENSG00000143006	DMRTB1 subnetwork	0.88755645	1.173148401
ENSG00000137267	TUBB2A subnetwork	0.88763518	1.173159956
GO:0071229	cellular response to acid	0.58186114	1.173168236
ENSG00000091136	LAMB1 subnetwork	0.58181959	1.173219159
ENSG00000183049	CAMK1D subnetwork	0.88832662	1.173227128
GO:0015662	ATPase activity, coupled to transmembrane movement of i	0.88753989	1.173241618
ENSG00000158373	HIST1H2BD subnetwork	0.58215819	1.173267867
ENSG00000127329	PTPRB subnetwork	0.88685425	1.173276805
MP:0008533	abnormal anterior visceral endoderm morphology	0.88752626	1.17332574
GO:0043046	DNA methylation involved in gamete generation	0.58240801	1.173336515
ENSG00000144837	PLA1A subnetwork	0.58211343	1.173352885
ENSG00000172936	MYD88 subnetwork	0.58204396	1.173356071
GO:0070469	respiratory chain	0.88684108	1.173365551
GO:0030278	regulation of ossification	0.88734408	1.173366445
ENSG00000113312	TTC1 subnetwork	0.88744592	1.173382541
GO:0046850	regulation of bone remodeling	0.58233899	1.173394245
MP:0008545	absent sperm flagellum	0.88709674	1.173395624
MP:0000778	abnormal nervous system tract morphology	0.5825117	1.173408316
GO:0033005	positive regulation of mast cell activation	0.88682624	1.173436075
REACTOME_NONSENSE_MEDIATED_DECAY_INDEPENDENT	REACTOME_NONSENSE_MEDIATED_DECAY_INDEPENDENT	0.88732616	1.173459716
MP:0008406	increased cellular sensitivity to hydrogen peroxide	0.88724748	1.173484641
GO:0051085	chaperone mediated protein folding requiring cofactor	0.88709296	1.17349804
ENSG00000101265	RASSF2 subnetwork	0.88630794	1.173528607
REACTOME_REGULATION_OF_GLUCOKINASE_BY_GLUCOKINASE	REACTOME_REGULATION_OF_GLUCOKINASE_BY_GLUCOKINASE	0.58272209	1.173531416
MP:0002279	abnormal diaphragm morphology	0.88681246	1.173533972
MP:0004933	abnormal epididymis epithelium morphology	0.5829175	1.173565881
MP:0011346	renal tubule atrophy	0.58299994	1.173569482
GO:0015491	cation:cation antiporter activity	0.88627957	1.173599197
ENSG00000126461	SCAF1 subnetwork	0.88668882	1.173602116
GO:0016862	intramolecular oxidoreductase activity, interconverting ket	0.88678892	1.173613645
ENSG00000138495	COX17 subnetwork	0.88647617	1.173626825
KEGG_ALDOSTERONE_REGULATED_SODIUM_REABSORPTION	KEGG_ALDOSTERONE_REGULATED_SODIUM_REABSORPTION	0.58267903	1.173630044
ENSG00000159086	GCFC1 subnetwork	0.88622289	1.17364242
GO:0050764	regulation of phagocytosis	0.88600566	1.173646737
GO:0007603	phototransduction, visible light	0.88664513	1.173649881
GO:0030511	positive regulation of transforming growth factor beta rece	0.88658995	1.173688532
MP:0009404	centrally nucleated skeletal muscle fibers	0.88618982	1.173699343
MP:0001156	abnormal spermatogenesis	0.58291448	1.173718997
ENSG00000163539	CLASP2 subnetwork	0.88541166	1.173739496
ENSG00000065427	KARS subnetwork	0.58380014	1.173744727
KEGG_STARCH_AND_SUCROSE_METABOLISM	KEGG_STARCH_AND_SUCROSE_METABOLISM	0.88600156	1.17375388
ENSG00000162105	SHANK2 subnetwork	0.88525818	1.173775809
GO:0009113	purine base biosynthetic process	0.88591848	1.173783438
GO:0044291	cell-cell contact zone	0.88538317	1.173823879
MP:0002750	exophthalmos	0.88585298	1.173840394
ENSG00000135365	PHF21A subnetwork	0.88524114	1.173846505
MP:0003119	abnormal digestive system development	0.88515003	1.17386239
GO:0031985	Golgi cisterna	0.58376678	1.173863636
MP:0004057	thin myocardium compact layer	0.58371225	1.173894106
GO:0000387	spliceosomal snRNP assembly	0.58346361	1.173910675
MP:0002766	situs inversus	0.58361939	1.173924585
REACTOME_INSULIN_SYNTHESIS_AND_PROCESSING	REACTOME_INSULIN_SYNTHESIS_AND_PROCESSING	0.88512611	1.173937677

GO:0060322	head development	0.88584439	1.173938453
GO:0042166	acetylcholine binding	0.88581713	1.173995434
ENSG00000116701	NCF2 subnetwork	0.88223891	1.174000733
GO:0032580	Golgi cisterna membrane	0.58344666	1.174029688
GO:0006024	glycosaminoglycan biosynthetic process	0.88512057	1.174040395
GO:0042274	ribosomal small subunit biogenesis	0.58336594	1.174046581
ENSG00000083312	TNPO1 subnetwork	0.58360734	1.174050374
ENSG00000162511	LAPTM5 subnetwork	0.88422987	1.174060013
GO:0031114	regulation of microtubule depolymerization	0.58330387	1.174063479
ENSG00000184672	RALYL subnetwork	0.88495607	1.174072212
REACTOME_PLATELET_DEGRAI	REACTOME_PLATELET_DEGRANULATION	0.88479223	1.174081185
GO:0010948	negative regulation of cell cycle process	0.88580082	1.174088958
GO:0071248	cellular response to metal ion	0.88473748	1.174097102
GO:0045907	positive regulation of vasoconstriction	0.88223819	1.174103787
GO:0000175	3'-5'-exoribonuclease activity	0.88434192	1.174108123
GO:0006525	arginine metabolic process	0.88411335	1.174128466
GO:0043487	regulation of RNA stability	0.88420692	1.174135407
GO:0032332	positive regulation of chondrocyte differentiation	0.88470081	1.174140454
REACTOME_CALCITONIN:LIKE_	REACTOME_CALCITONIN:LIKE_LIGAND_RECEPTORS	0.88511978	1.174147701
ENSG00000100813	ACIN1 subnetwork	0.88464712	1.174170096
MP:0000761	thin diaphragm muscle	0.88405674	1.174171852
ENSG00000065135	GNAI3 subnetwork	0.88495531	1.174179541
GO:0015986	ATP synthesis coupled proton transport	0.88398257	1.174183216
GO:0009220	pyrimidine ribonucleotide biosynthetic process	0.88222231	1.174183935
MP:0008883	abnormal enterocyte proliferation	0.88260656	1.174186601
ENSG00000163527	STT3B subnetwork	0.88457013	1.174190598
MP:0008875	abnormal xenobiotic pharmacokinetics	0.58420855	1.174193987
MP:0005323	dystonia	0.88254434	1.174197984
ENSG00000147684	NDUFB9 subnetwork	0.88364672	1.174221754
MP:0006354	abnormal fourth branchial arch artery morphology	0.58415866	1.17422449
GO:0007032	endosome organization	0.88247501	1.174227702
ENSG00000133116	KL subnetwork	0.88218277	1.174236589
REACTOME_G_ALPHA_Z_SIGN	REACTOME_G_ALPHA_Z_SIGNALLING_EVENTS	0.88454273	1.17424769
ENSG00000145191	EIF2B5 subnetwork	0.88377528	1.174274467
REACTOME_COPI_MEDIATED_	REACTOME_COPI_MEDIATED_TRANSPORT	0.88388609	1.174279176
GO:0015985	energy coupled proton transport, down electrochemical gra	0.88398257	1.174290683
ENSG00000157927	RADIL subnetwork	0.58520456	1.174297161
MP:0005120	decreased circulating growth hormone level	0.88354413	1.174299451
ENSG00000118985	ELL2 subnetwork	0.58529634	1.174300652
GO:0043616	keratinocyte proliferation	0.88363674	1.174324696
GO:0010510	regulation of acetyl-CoA biosynthetic process from pyruvat	0.88191809	1.174328043
ENSG00000087152	ATXN7L3 subnetwork	0.88217011	1.174339692
GO:0005372	water transmembrane transporter activity	0.88351756	1.174384101
REACTOME_GOLGI_TO_ER_RE	REACTOME_GOLGI_TO_ER_RETROGRADE_TRANSPORT	0.88388609	1.174386672
GO:0005746	mitochondrial respiratory chain	0.88287886	1.174399743
GO:0032757	positive regulation of interleukin-8 production	0.88212575	1.174419884
MP:0000078	abnormal supraoccipital bone morphology	0.880065	1.174430147
GO:0006086	acetyl-CoA biosynthetic process from pyruvate	0.88191809	1.17443578
ENSG00000115806	GORASP2 subnetwork	0.8816727	1.174442507
ENSG00000101413	RPRD1B subnetwork	0.58519512	1.174443086
ENSG00000135932	CAB39 subnetwork	0.88333587	1.174464089
ENSG00000117360	PRPF3 subnetwork	0.58556847	1.17447054
ENSG00000130741	EIF2S3 subnetwork	0.88351045	1.174477926

GO:0016820	hydrolase activity, acting on acid anhydrides, catalyzing tra	0.58563708	1.17448758
ENSG00000072134	EPN2 subnetwork	0.88004621	1.174510525
GO:0004716	receptor signaling protein tyrosine kinase activity	0.88211763	1.174513851
ENSG00000125352	RNF113A subnetwork	0.585493	1.174514596
MP:0010956	abnormal mitochondrial ATP synthesis coupled electron tra	0.88189803	1.174520598
GO:0032535	regulation of cellular component size	0.58580341	1.174521645
ENSG00000110245	APOC3 subnetwork	0.8832887	1.174525882
ENSG00000184363	PKP3 subnetwork	0.88183683	1.174532024
GO:0004708	MAP kinase kinase activity	0.58595411	1.174535341
ENSG00000069974	RAB27A subnetwork	0.87996336	1.17453576
GO:0031069	hair follicle morphogenesis	0.8816559	1.174536527
MP:0004181	abnormal carotid artery morphology	0.88348967	1.174539709
MP:0002988	decreased urine osmolality	0.88156039	1.174543369
MP:0000018	small ears	0.87988816	1.174561
ENSG00000108433	GOSR2 subnetwork	0.88023689	1.174561162
ENSG00000165868	HSPA12A subnetwork	0.58470859	1.174588715
ENSG00000162664	ZNF326 subnetwork	0.8804119	1.174588808
ENSG00000181991	MRPS11 subnetwork	0.58590727	1.174592944
ENSG00000009307	CSDE1 subnetwork	0.58519117	1.174595843
GO:0004861	cyclin-dependent protein kinase inhibitor activity	0.88034079	1.174614042
GO:0051261	protein depolymerization	0.58578642	1.174626764
GO:0007274	neuromuscular synaptic transmission	0.87985895	1.17462762
ENSG00000215755	ENSG00000215755 subnetwork	0.8832887	1.174633498
GO:0031225	anchored to membrane	0.8815364	1.174637415
ENSG00000164167	LSM6 subnetwork	0.58514826	1.174653533
GO:0001990	regulation of systemic arterial blood pressure by hormone	0.88145293	1.174662627
GO:0043292	contractile fiber	0.8797049	1.174668935
GO:0006739	NADP metabolic process	0.88322151	1.174695318
GO:0007059	chromosome segregation	0.88090423	1.174699183
ENSG00000114416	FXR1 subnetwork	0.58876749	1.17470628
MP:0000194	hypercalcemia	0.87982841	1.174708046
ENSG00000124406	ATP8A1 subnetwork	0.58883983	1.174709695
ENSG00000139618	BRCA2 subnetwork	0.58470247	1.17472124
ENSG00000171345	KRT19 subnetwork	0.58707515	1.174729144
GO:0001101	response to acid	0.88133214	1.174736021
ENSG00000152822	GRM1 subnetwork	0.58465604	1.174751802
MP:0003988	disorganized embryonic tissue	0.88127645	1.174752066
GO:0045780	positive regulation of bone resorption	0.5865763	1.174756031
MP:0005595	abnormal vascular smooth muscle physiology	0.87968767	1.174758576
ENSG00000198807	PAX9 subnetwork	0.88115002	1.174758931
ENSG00000145555	MYO10 subnetwork	0.58612651	1.174762615
MP:0002092	abnormal eye morphology	0.58512609	1.174765593
MP:0000966	decreased sensory neuron number	0.88144589	1.174765883
GO:0042809	vitamin D receptor binding	0.58700693	1.174773127
GO:0060487	lung epithelial cell differentiation	0.88087147	1.174784126
GO:0032611	interleukin-1 beta production	0.58685877	1.174786614
ENSG00000160563	MED27 subnetwork	0.58673825	1.174789973
GO:0000084	S phase of mitotic cell cycle	0.58728483	1.174790144
GO:0070507	regulation of microtubule cytoskeleton organization	0.87951411	1.174790728
ENSG00000182580	EPHB3 subnetwork	0.58459161	1.174802775
REACTOME_TRYPTOPHAN_CATABOLISM	REACTOME_TRYPTOPHAN_CATABOLISM	0.58485743	1.174809679
ENSG00000137801	THBS1 subnetwork	0.58694962	1.174810349
ENSG00000166963	MAP1A subnetwork	0.87963727	1.174811442

ENSG00000213023	SYT3 subnetwork	0.87941819	1.174816007
GO:0004177	aminopeptidase activity	0.58994789	1.174818059
MP:0003169	abnormal scala media morphology	0.58639986	1.174827119
GO:0007596	blood coagulation	0.58646494	1.17483731
GO:0046135	pyrimidine nucleoside catabolic process	0.58875781	1.174837925
ENSG00000134046	MBD2 subnetwork	0.58895816	1.174841366
GO:0009100	glycoprotein metabolic process	0.58497807	1.174847084
GO:0001953	negative regulation of cell-matrix adhesion	0.88112633	1.174848457
ENSG00000127688	GAN subnetwork	0.59025027	1.174868651
ENSG00000164695	CHMP4C subnetwork	0.87931465	1.174871181
GO:0042095	interferon-gamma biosynthetic process	0.88085552	1.174873679
MP:0004200	decreased fetal size	0.5874144	1.17487478
ENSG00000105613	MAST1 subnetwork	0.58724791	1.174881517
ENSG00000106723	SPIN1 subnetwork	0.58987872	1.17488206
ENSG00000138750	NUP54 subnetwork	0.59010097	1.174888829
ENSG00000126858	RHOT1 subnetwork	0.58635321	1.174891511
MP:0009237	kinked sperm flagellum	0.87939551	1.174896495
GO:0042445	hormone metabolic process	0.88080596	1.174908122
GO:0046852	positive regulation of bone remodeling	0.5865763	1.174915277
ENSG00000164683	HEY1 subnetwork	0.87924134	1.174924082
MP:0002270	abnormal pulmonary alveolus morphology	0.58512583	1.174925251
ENSG00000014641	MDH1 subnetwork	0.58672972	1.174928852
GO:0004115	3',5'-cyclic-AMP phosphodiesterase activity	0.58628667	1.174935576
ENSG00000163032	VSNL1 subnetwork	0.87918244	1.174967789
ENSG00000204469	PRRC2A subnetwork	0.58940868	1.174986508
ENSG00000161057	PSMC2 subnetwork	0.58836774	1.174993241
GO:0001076	RNA polymerase II transcription factor binding transcription	0.58875261	1.174996623
MP:0006050	pulmonary fibrosis	0.59022915	1.175
GO:0070838	divalent metal ion transport	0.5893597	1.175003373
MP:0003793	abnormal submandibular gland morphology	0.58986831	1.17500674
GO:0031983	vesicle lumen	0.87912597	1.175006903
ENSG00000126583	PRKCG subnetwork	0.58976019	1.175023594
ENSG00000205420	KRT6A subnetwork	0.58853171	1.175060811
ENSG00000153006	SREK1IP1 subnetwork	0.58929385	1.175067476
MP:0009754	enhanced behavioral response to cocaine	0.87886903	1.175069048
ENSG00000146674	IGFBP3 subnetwork	0.58970357	1.175087648
REACTOME_THE_CITRIC_ACID_CYCLE_AND_RESPIRATORY_CHAIN	REACTOME_THE_CITRIC_ACID_TCA_CYCLE_AND_RESPIRATORY_CHAIN	0.58873746	1.175094569
MP:0006126	abnormal outflow tract development	0.8790976	1.175101252
ENSG00000143553	SNAPIN subnetwork	0.58866115	1.175111471
ENSG00000213741	RPS29 subnetwork	0.58917939	1.175114741
ENSG00000175592	FOSL1 subnetwork	0.58925587	1.175145094
ENSG00000067191	CACNB1 subnetwork	0.87882183	1.175149618
MP:0008029	abnormal paraxial mesoderm morphology	0.5883651	1.175152089
ENSG00000171786	NHLH1 subnetwork	0.8790591	1.175177207
GO:0032148	activation of protein kinase B activity	0.58952904	1.175185485
ENSG00000093009	CDC45 subnetwork	0.58850823	1.175185836
ENSG00000177879	AP3S1 subnetwork	0.58966391	1.175198921
GO:0019884	antigen processing and presentation of exogenous antigen	0.58819406	1.175243441
GO:2000377	regulation of reactive oxygen species metabolic process	0.87880783	1.175253223
ENSG00000116016	EPAS1 subnetwork	0.58962824	1.17526976
ENSG00000025772	TOMM34 subnetwork	0.58834196	1.175270416
ENSG00000187098	MITF subnetwork	0.58785779	1.175321424
ENSG00000106459	NRF1 subnetwork	0.87880537	1.175356847

GO:0048339	paraxial mesoderm development	0.58801347	1.175382222
MP:0000536	hydroureter	0.58832084	1.175388776
MP:0004077	abnormal striatum morphology	0.87874505	1.175396021
GO:0000187	activation of MAPK activity	0.58810361	1.17539908
ENSG00000143801	PSEN2 subnetwork	0.58817881	1.175402408
ENSG00000166501	PRKCB subnetwork	0.58795688	1.175419486
ENSG00000043591	ADRB1 subnetwork	0.87868249	1.175430598
ENSG00000047410	TPR subnetwork	0.58784265	1.17544667
GO:0048710	regulation of astrocyte differentiation	0.87860932	1.175488209
MP:0001850	increased susceptibility to otitis media	0.87859711	1.175568862
MP:0009703	decreased birth body size	0.5913788	1.175639128
MP:0011084	partial lethality at weaning	0.87855604	1.175644924
GO:0023021	termination of signal transduction	0.87789608	1.175668449
GO:0072498	embryonic skeletal joint development	0.878159	1.175670569
ENSG00000101224	CDC25B subnetwork	0.59071976	1.175693696
GO:0000780	condensed nuclear chromosome, centromeric region	0.8777345	1.175696238
ENSG00000206419	ENSG00000206419 subnetwork	0.87670821	1.175713231
MP:0000652	enlarged sebaceous gland	0.59123634	1.175713324
GO:0001659	temperature homeostasis	0.87828528	1.175714286
ENSG00000215425	DDX39B subnetwork	0.8785211	1.175720999
ENSG00000117410	ATP6V0B subnetwork	0.87784528	1.175735362
ENSG00000089022	MAPKAPK5 subnetwork	0.59135583	1.175750235
GO:0045730	respiratory burst	0.87769933	1.175763165
ENSG00000166206	GABRB3 subnetwork	0.87815268	1.175774336
ENSG00000151164	RAD9B subnetwork	0.87763455	1.175807047
REACTOME_PROTEOLYTIC_CLEAVAGE_OF_SNARE_COMPLEX	REACTOME_PROTEOLYTIC_CLEAVAGE_OF_SNARE_COMPLEX	0.8771542	1.175812108
MP:0005108	abnormal ulna morphology	0.87683116	1.175817024
ENSG00000123080	CDKN2C subnetwork	0.59120344	1.175817741
ENSG00000206495	TRIM39 subnetwork	0.87670821	1.175821791
ENSG00000215412	ENSG00000215412 subnetwork	0.8785211	1.17582934
REACTOME_GLYCOPHINGOLIPID_METABOLISM	REACTOME_GLYCOPHINGOLIPID_METABOLISM	0.87759156	1.175864773
GO:0046488	phosphatidylinositol metabolic process	0.59084599	1.17586532
REACTOME_EUKARYOTIC_TRANSLATION_INITIATION	REACTOME_EUKARYOTIC_TRANSLATION_INITIATION	0.87747148	1.175876384
GO:0007034	vacuolar transport	0.87814946	1.175882733
MP:0001940	testis hypoplasia	0.87714418	1.175906784
ENSG00000065609	SNAP91 subnetwork	0.59115496	1.175922186
ENSG00000204599	TRIM39 subnetwork	0.87670821	1.175930372
GO:0051148	negative regulation of muscle cell differentiation	0.87661758	1.175932767
ENSG00000130307	USHBP1 subnetwork	0.87730946	1.175934299
REACTOME_CALNEXIN_RETICULIN_CYCLE	REACTOME_CALNEXIN_RETICULIN_CYCLE	0.87645417	1.175937558
ENSG00000198563	DDX39B subnetwork	0.8785211	1.175937702
MP:0001922	reduced male fertility	0.87735685	1.175941133
GO:0035335	peptidyl-tyrosine dephosphorylation	0.87655485	1.175981343
REACTOME_CAP_DEPENDENT_TRANSLATION_INITIATION	REACTOME_CAP_DEPENDENT_TRANSLATION_INITIATION	0.87747148	1.175984869
GO:0004437	inositol or phosphatidylinositol phosphatase activity	0.59109678	1.175986266
MP:0001511	disheveled coat	0.87639476	1.175990762
GO:0019835	cytolysis	0.59097562	1.176003232
GO:0072163	mesonephric epithelium development	0.87713141	1.176006092
ENSG00000151532	VT1A subnetwork	0.87638988	1.17609017
GO:0072164	mesonephric tubule development	0.87713141	1.17611465
GO:0042753	positive regulation of circadian rhythm	0.87627286	1.176173535
GO:0006486	protein glycosylation	0.59225171	1.176182796
ENSG00000170871	KIAA0232 subnetwork	0.87636789	1.176194216

ENSG00000164045	CDC25A subnetwork	0.59199623	1.176206804
ENSG00000197756	RPL37A subnetwork	0.8761548	1.176224584
GO:0006405	RNA export from nucleus	0.87625081	1.176249884
REACTOME_NONSENSE:MEDIA	REACTOME_NONSENSE:MEDIATED_DECAY	0.5919574	1.176277569
MP:0011091	complete prenatal lethality	0.59238609	1.176286789
ENSG00000104613	INTS10 subnetwork	0.87609967	1.176296331
ENSG00000148143	ZNF462 subnetwork	0.59215813	1.176337725
GO:0043413	macromolecule glycosylation	0.59225171	1.176340906
MP:0008511	thin retinal inner nuclear layer	0.87522694	1.176355477
ENSG00000184897	H1FX subnetwork	0.87575529	1.176359349
GO:0055072	iron ion homeostasis	0.87539344	1.176369103
ENSG00000176177	ENTHD1 subnetwork	0.59253875	1.176370599
ENSG00000164080	RAD54L2 subnetwork	0.87599702	1.176379773
GO:0016525	negative regulation of angiogenesis	0.87609298	1.176381956
GO:0030004	cellular monovalent inorganic cation homeostasis	0.87586743	1.176403144
ENSG00000198399	ITSN2 subnetwork	0.87520148	1.176408809
REACTOME_NONSENSE_MEDI	REACTOME_NONSENSE_MEDIATED_DECAY_ENHANCED_B'	0.5919574	1.176435777
GO:0008593	regulation of Notch signaling pathway	0.87572897	1.176440396
GO:0045576	mast cell activation	0.87504899	1.17644609
GO:0042346	positive regulation of NF-kappaB import into nucleus	0.87538238	1.176459432
GO:0031406	carboxylic acid binding	0.87557661	1.176468412
ENSG00000004779	NDUFAB1 subnetwork	0.87598192	1.17647929
GO:0005487	nucleocytoplasmic transporter activity	0.87516697	1.176499167
ENSG00000164758	MED30 subnetwork	0.59190925	1.176499865
GO:0015695	organic cation transport	0.59183031	1.176503431
REACTOME_CELL:CELL_JUNCTI	REACTOME_CELL:CELL_JUNCTION_ORGANIZATION	0.87569477	1.176516833
GO:0031122	cytoplasmic microtubule organization	0.87504321	1.176550352
MP:0006113	abnormal heart septum morphology	0.8749024	1.176601555
GO:0007530	sex determination	0.87483636	1.176636423
GO:0043691	reverse cholesterol transport	0.8750365	1.176654633
ENSG00000135506	OS9 subnetwork	0.5929236	1.176668905
KEGG_OXIDATIVE_PHOSPHOR	KEGG_OXIDATIVE_PHOSPHORYLATION	0.87478516	1.176694444
MP:0000434	megacephaly	0.59285401	1.176699355
GO:0042249	establishment of planar polarity of embryonic epithelium	0.87450409	1.176704335
MP:0001566	hyperphosphatemia	0.87466612	1.176717911
GO:0010811	positive regulation of cell-substrate adhesion	0.87461687	1.176766694
ENSG00000197780	TAF13 subnetwork	0.59279572	1.176790273
ENSG00000152104	PTPN14 subnetwork	0.59327392	1.176792427
ENSG00000126768	TIMM17B subnetwork	0.59401344	1.176793617
ENSG00000131941	RHPN2 subnetwork	0.59409211	1.176796728
ENSG00000137825	ITPKA subnetwork	0.87478119	1.176803408
ENSG00000013374	NUB1 subnetwork	0.87449157	1.17681334
KEGG_MATURITY_ONSET_DIA	KEGG_MATURITY_ONSET_DIABETES_OF_THE_YOUNG	0.87442902	1.17687141
GO:0042177	negative regulation of protein catabolic process	0.59369619	1.17689521
ENSG00000104375	STK3 subnetwork	0.59338743	1.176929789
MP:0001851	eye inflammation	0.59400613	1.176938036
GO:0072075	metanephric mesenchyme development	0.59327325	1.17695045
GO:0003215	cardiac right ventricle morphogenesis	0.87441261	1.176971185
GO:0035023	regulation of Rho protein signal transduction	0.59394962	1.177002012
GO:0031109	microtubule polymerization or depolymerization	0.87438782	1.17704318
ENSG00000100346	CACNA1I subnetwork	0.59367689	1.17704643
GO:0010952	positive regulation of peptidase activity	0.59392004	1.17707942
ENSG00000137876	RSL24D1 subnetwork	0.59325015	1.17708837

GO:0016757	transferase activity, transferring glycosyl groups	0.87437138	1.17714299
GO:0003735	structural constituent of ribosome	0.59366209	1.177184271
GO:0002347	response to tumor cell	0.59361018	1.177201342
ENSG00000112941	PAPD7 subnetwork	0.87435463	1.177242817
ENSG00000136999	NOV subnetwork	0.87401693	1.177245759
GO:0005876	spindle microtubule	0.87387166	1.1772879
GO:0046034	ATP metabolic process	0.87434531	1.177338029
GO:0016758	transferase activity, transferring hexosyl groups	0.87401195	1.177350269
ENSG00000021574	SPAST subnetwork	0.87364801	1.177351141
GO:0005178	integrin binding	0.87425271	1.177359103
GO:0048704	embryonic skeletal system morphogenesis	0.87384954	1.177364614
GO:0046496	nicotinamide nucleotide metabolic process	0.87379366	1.1773857
MP:0001394	circling	0.8736129	1.177427882
ENSG00000152684	PELO subnetwork	0.87356086	1.177462894
REACTOME_EXPORT_OF_VIRAL_RIBONUCLEOPROTEINS_FROM_HOST_CELL	REACTOME_EXPORT_OF_VIRAL_RIBONUCLEOPROTEINS_FROM_HOST_CELL	0.59681635	1.177474289
MP:0004003	abnormal vascular endothelial cell physiology	0.87346548	1.177546855
GO:0060767	epithelial cell proliferation involved in prostate gland development	0.8735571	1.177572131
ENSG00000146463	ZMYM4 subnetwork	0.59769474	1.177587357
GO:0016829	lyase activity	0.59764033	1.177604375
KEGG_COMPLEMENT_AND_COAGULATION_CASCADES	KEGG_COMPLEMENT_AND_COAGULATION_CASCADES	0.59681116	1.177631579
GO:0072012	glomerulus vasculature development	0.87345585	1.17765148
ENSG00000097046	CDC7 subnetwork	0.59784539	1.177693333
MP:0005592	abnormal vascular smooth muscle morphology	0.59793298	1.177709639
ENSG00000179801	ENSG00000179801 subnetwork	0.87344476	1.177732925
GO:0016303	1-phosphatidylinositol-3-kinase activity	0.59763646	1.177754803
ENSG00000173113	TRMT112 subnetwork	0.59678304	1.177762191
ENSG00000163104	SMARCA4 subnetwork	0.5978327	1.177783704
GO:0033574	response to testosterone stimulus	0.87340833	1.177814385
ENSG00000197498	RPF2 subnetwork	0.59655279	1.177877289
ENSG00000142892	PIGK subnetwork	0.59467907	1.177899182
GO:0006702	androgen biosynthetic process	0.59676925	1.177899519
GO:0033189	response to vitamin A	0.87339319	1.177905142
GO:0035004	phosphatidylinositol 3-kinase activity	0.59763646	1.177911941
ENSG00000185615	PDIA2 subnetwork	0.59504443	1.177924427
ENSG00000101146	RAE1 subnetwork	0.59898221	1.17793824
ENSG00000068903	SIRT2 subnetwork	0.596496	1.177941176
REACTOME_RNA_POLYMERASE_III_TRANSCRIPTION	REACTOME_RNA_POLYMERASE_III_TRANSCRIPTION	0.5986757	1.177959782
GO:2000021	regulation of ion homeostasis	0.59673343	1.177963384
ENSG00000174233	ADCY6 subnetwork	0.59751831	1.177972775
ENSG00000168476	REEP4 subnetwork	0.59760307	1.177975714
GO:0001942	hair follicle development	0.5961138	1.177986622
ENSG00000136695	IL36RN subnetwork	0.59480179	1.177989276
GO:0016896	exoribonuclease activity, producing 5'-phosphomonoesters	0.87336212	1.177991274
ENSG00000139180	NDUFA9 subnetwork	0.59833752	1.17799467
ENSG00000163191	S100A11 subnetwork	0.59669436	1.178020583
ENSG00000129515	SNX6 subnetwork	0.59893088	1.178035144
GO:0006501	C-terminal protein lipidation	0.59621614	1.178036383
GO:0045295	gamma-catenin binding	0.59572414	1.178038822
KEGG_ARGININE_AND_PROLINE_METABOLISM	KEGG_ARGININE_AND_PROLINE_METABOLISM	0.59501538	1.17804878
ENSG00000103043	VAC14 subnetwork	0.59563642	1.17804927
GO:0070279	vitamin B6 binding	0.59934744	1.178066791
MP:0000455	abnormal maxilla morphology	0.87333276	1.17806814
ENSG00000180190	C8orf42 subnetwork	0.59579795	1.178068532

ENSG00000122641	INHBA subnetwork	0.59880799	1.178069241
GO:0004385	guanylate kinase activity	0.59747761	1.178069941
ENSG00000068438	FTSJ1 subnetwork	0.59961564	1.178082192
REACTOME_DESTABILIZATION_OF_MRNA_BY_TRISTETRAPEPTIDE	REACTOME_DESTABILIZATION_OF_MRNA_BY_TRISTETRAPEPTIDE	0.5984588	1.178084199
GO:0032101	regulation of response to external stimulus	0.59721297	1.178098291
GO:0006040	amino sugar metabolic process	0.59830855	1.178098348
ENSG00000198242	RPL23A subnetwork	0.59649187	1.178098676
ENSG00000171824	EXOSC10 subnetwork	0.59557942	1.178099893
ENSG00000100242	SUN2 subnetwork	0.87328349	1.17810324
REACTOME_RNA_POLYMERASE_III_ABORTIVE_AND_RETROGRADE_TRANSCRIPTION	REACTOME_RNA_POLYMERASE_III_ABORTIVE_AND_RETROGRADE_TRANSCRIPTION	0.5986757	1.178116676
GO:0048536	spleen development	0.59495181	1.178132958
GO:0043536	positive regulation of blood vessel endothelial cell migration	0.59524335	1.178135048
ENSG00000099864	PALM subnetwork	0.59889832	1.17813873
GO:0022404	molting cycle process	0.5961138	1.178144233
GO:0034185	apolipoprotein binding	0.59744654	1.178160459
GO:0050918	positive chemotaxis	0.59732886	1.17816798
GO:0006303	double-strand break repair via nonhomologous end joining	0.59543141	1.178174391
ENSG00000168412	MTNR1A subnetwork	0.59552604	1.178177314
ENSG00000130402	ACTN4 subnetwork	0.59592922	1.178178533
ENSG00000120063	GNA13 subnetwork	0.59827535	1.178188725
ENSG00000158864	NDUFS2 subnetwork	0.87325657	1.178189415
GO:0005355	glucose transmembrane transporter activity	0.59972436	1.178198138
GO:0004222	metalloendopeptidase activity	0.59634239	1.178213187
ENSG00000107201	DDX58 subnetwork	0.598648	1.178213667
GO:0009886	post-embryonic morphogenesis	0.59739912	1.178217623
GO:0006516	glycoprotein catabolic process	0.59644519	1.178222787
GO:0030170	pyridoxal phosphate binding	0.59934744	1.178223553
REACTOME_KINESINS	REACTOME_KINESINS	0.59960611	1.178232243
ENSG00000137757	CASP5 subnetwork	0.60701739	1.178256013
MP:0002273	abnormal pulmonary alveolus epithelial cell morphology	0.59539391	1.17825854
GO:0070243	regulation of thymocyte apoptotic process	0.59822649	1.178259131
MP:0005023	abnormal wound healing	0.60695854	1.178272871
GO:0048514	blood vessel morphogenesis	0.87277537	1.17827945
GO:0000080	G1 phase of mitotic cell cycle	0.87258749	1.178289351
ENSG00000134259	NGF subnetwork	0.87325537	1.178298821
GO:0022405	hair cycle process	0.5961138	1.178301887
GO:0003279	cardiac septum development	0.87314289	1.178306092
GO:0042626	ATPase activity, coupled to transmembrane movement of substances	0.59953528	1.178315817
ENSG00000196313	POM121 subnetwork	0.5993386	1.178320468
GO:0042805	actinin binding	0.87273234	1.178333178
GO:0032868	response to insulin stimulus	0.87253979	1.178333798
ENSG00000066032	CTNNA2 subnetwork	0.5998881	1.178340646
ENSG00000107614	TRDMT1 subnetwork	0.87248381	1.178359665
ENSG00000149925	ALDOA subnetwork	0.87311241	1.17839231
ENSG00000130653	PNPLA7 subnetwork	0.87291212	1.178406874
MP:0004542	impaired acrosome reaction	0.87302225	1.178413524
GO:0019433	triglyceride catabolic process	0.60695572	1.178414618
MP:0011107	partial embryonic lethality before turning of embryo	0.6071958	1.178423127
MP:0002792	abnormal retinal vasculature morphology	0.87247435	1.178459894
ENSG00000163605	PPP4R2 subnetwork	0.6067292	1.178491583
GO:0008361	regulation of cell size	0.87244626	1.178513664
GO:0042168	heme metabolic process	0.60695469	1.17856955
GO:0070588	calcium ion transmembrane transport	0.87235417	1.178584046

GO:0045072	regulation of interferon-gamma biosynthetic process	0.87243931	1.178590685
ENSG00000118007	STAG1 subnetwork	0.60612964	1.178591178
GO:0051101	regulation of DNA binding	0.60661847	1.178624046
ENSG00000179218	CALR subnetwork	0.60671728	1.178626858
ENSG00000079785	DDX1 subnetwork	0.60139362	1.178634916
MP:0002795	dilated cardiomyopathy	0.87211633	1.178666419
ENSG00000181610	MRPS23 subnetwork	0.6054369	1.178667457
ENSG00000120705	ETF1 subnetwork	0.60607853	1.178673953
MP:0006344	small second branchial arch	0.60692439	1.178678501
GO:0007351	tripartite regional subdivision	0.87234681	1.178688982
GO:0010595	positive regulation of endothelial cell migration	0.60536806	1.178697601
GO:0048103	somatic stem cell division	0.60135428	1.178698421
GO:0003755	peptidyl-prolyl cis-trans isomerase activity	0.60750717	1.178711245
ENSG00000181019	NQO1 subnetwork	0.60776148	1.178732764
GO:0034446	substrate adhesion-dependent cell spreading	0.60659666	1.178733061
GO:0005913	cell-cell adherens junction	0.87209146	1.178734189
ENSG00000115738	ID2 subnetwork	0.60129196	1.178735403
GO:0080111	DNA demethylation	0.60108133	1.178743032
GO:0032273	positive regulation of protein polymerization	0.60605635	1.17875675
ENSG00000091073	ENSG00000091073 subnetwork	0.60568829	1.178778495
ENSG00000159164	SV2A subnetwork	0.60579022	1.178781291
GO:0045749	negative regulation of S phase of mitotic cell cycle	0.87201918	1.17878802
GO:0008595	anterior/posterior axis specification, embryo	0.87234681	1.178798587
ENSG00000171700	RGS19 subnetwork	0.60656831	1.178822368
ENSG00000108813	DLX4 subnetwork	0.60535262	1.178826632
GO:0000038	very long-chain fatty acid metabolic process	0.87197771	1.178827907
GO:0032606	type I interferon production	0.60749798	1.178846407
ENSG00000044524	EPHA3 subnetwork	0.60035883	1.178854333
ENSG00000181690	PLAG1 subnetwork	0.60602964	1.178859326
GO:0051181	cofactor transport	0.60564698	1.17886136
GO:0051270	regulation of cellular component movement	0.60636966	1.178873239
ENSG00000151332	MBIP subnetwork	0.6077542	1.178874442
ENSG00000089234	BRAP subnetwork	0.60128402	1.178878567
GO:0043648	dicarboxylic acid metabolic process	0.60045721	1.178883721
ENSG00000104964	AES subnetwork	0.60107348	1.178892871
GO:0000726	non-recombinational repair	0.60019999	1.178895241
MP:0002836	abnormal chorion morphology	0.60830651	1.178923885
ENSG00000111676	ATN1 subnetwork	0.87196234	1.178928272
REACTOME_POST_NMDA_REC	REACTOME_POST_NMDA_RECEPTOR_ACTIVATION_EVENT:	0.60633698	1.1789297
ENSG00000144648	CCBP2 subnetwork	0.60031451	1.178937924
ENSG00000122122	SASH3 subnetwork	0.60656272	1.178938018
GO:0051055	negative regulation of lipid biosynthetic process	0.60595963	1.178942168
ENSG00000068305	MEF2A subnetwork	0.60771132	1.178950479
GO:0015718	monocarboxylic acid transport	0.60824357	1.178967056
ENSG00000170276	ENSG00000170276 subnetwork	0.60057205	1.178972894
REACTOME_GLYCOLYSIS	REACTOME_GLYCOLYSIS	0.60534846	1.178975475
GO:0033144	negative regulation of intracellular steroid hormone recept	0.60483721	1.178987993
REACTOME_GLUONEOGENES	REACTOME_GLUONEOGENESIS	0.60506091	1.178993536
MP:0005598	decreased ventricle muscle contractility	0.87194987	1.179005396
GO:2000045	regulation of G1/S transition of mitotic cell cycle	0.60651867	1.179014214
ENSG00000103942	HOMER2 subnetwork	0.60105922	1.179016198
GO:0001522	pseudouridine synthesis	0.60495787	1.179023747
ENSG00000204271	SPIN3 subnetwork	0.604355	1.179027998

ENSG00000135409	AMHR2 subnetwork	0.60191544	1.179041241
ENSG00000185046	ANKS1B subnetwork	0.87192084	1.179049967
ENSG00000112531	QKI subnetwork	0.60100307	1.179073164
GO:0005665	DNA-directed RNA polymerase II, core complex	0.60460787	1.179075908
ENSG00000161920	MED11 subnetwork	0.60528872	1.179078201
ENSG00000123360	PDE1B subnetwork	0.60201921	1.179083797
MP:0002591	decreased mean corpuscular volume	0.60089754	1.179087528
ENSG00000126778	SIX1 subnetwork	0.60446134	1.179103394
MP:0002026	leukemia	0.60482434	1.179110583
ENSG00000183570	PCBP3 subnetwork	0.60824214	1.179121817
MP:0004901	decreased male germ cell number	0.60095562	1.179136786
ENSG00000185920	PTCH1 subnetwork	0.60302254	1.179150119
GO:0046658	anchored to plasma membrane	0.87190652	1.179155034
ENSG00000215639	ENSG00000215639 subnetwork	0.60181529	1.179168325
GO:0042542	response to hydrogen peroxide	0.60328027	1.179171629
ENSG00000130414	NDUFA10 subnetwork	0.60273658	1.179172185
GO:0048599	oocyte development	0.60317563	1.17917549
ENSG00000130340	SNX9 subnetwork	0.6008524	1.179177736
MP:0000639	abnormal adrenal gland morphology	0.60456457	1.179178769
ENSG00000072682	P4HA2 subnetwork	0.871832	1.179181014
ENSG00000186787	SPIN2B subnetwork	0.604355	1.179183727
GO:0004527	exonuclease activity	0.60347749	1.179190369
REACTOME_DEVELOPMENTAL	REACTOME_DEVELOPMENTAL_BIOLOGY	0.60879725	1.179193443
GO:0035304	regulation of protein dephosphorylation	0.60190846	1.179197613
ENSG00000127824	TUBA4A subnetwork	0.60526809	1.179200739
MP:0003111	abnormal cell nucleus morphology	0.60339533	1.179207462
GO:0070585	protein localization in mitochondrion	0.60079446	1.179214827
ENSG00000184937	WT1 subnetwork	0.60415971	1.179215116
GO:0009411	response to UV	0.60313204	1.17921906
ENSG00000131910	NR0B2 subnetwork	0.60298238	1.179220177
ENSG00000102218	RP2 subnetwork	0.60290494	1.179230667
ENSG00000160094	ZNF362 subnetwork	0.60821436	1.179230668
ENSG00000090061	CCNK subnetwork	0.6025043	1.179253909
ENSG00000168546	GFRA2 subnetwork	0.60402605	1.179255882
GO:0070647	protein modification by small protein conjugation or removal	0.87161745	1.179258983
ENSG00000164402	SEPT8 subnetwork	0.60482345	1.179259601
GO:0046394	carboxylic acid biosynthetic process	0.60389056	1.179263617
ENSG00000166889	PATL1 subnetwork	0.60431051	1.179266843
GO:0006636	unsaturated fatty acid biosynthetic process	0.60424996	1.179270709
ENSG00000071242	RPS6KA2 subnetwork	0.60360426	1.179272487
MP:0004566	myocardial fiber degeneration	0.60815785	1.179273897
GO:0060644	mammary gland epithelial cell differentiation	0.60369367	1.179275228
ENSG00000074047	GLI2 subnetwork	0.60877348	1.179275971
ENSG00000132670	PTPRA subnetwork	0.60270955	1.179282024
ENSG00000168539	CHRM1 subnetwork	0.8718084	1.179290767
MP:0001475	reduced long term depression	0.60871857	1.179319166
ENSG00000008988	RPS20 subnetwork	0.60287556	1.17932062
GO:0007098	centrosome cycle	0.60396205	1.179325843
MP:0002961	abnormal axon guidance	0.87159124	1.179326878
ENSG00000162923	WDR26 subnetwork	0.87173806	1.179335381
GO:0006493	protein O-linked glycosylation	0.60246624	1.179337309
GO:0051046	regulation of secretion	0.6041356	1.17935113
MP:0002081	perinatal lethality	0.60859201	1.179353103

ENSG00000165659	DACH1 subnetwork	0.60260459	1.179356036
GO:0018208	peptidyl-proline modification	0.60380556	1.179363925
ENSG00000164742	ADCY1 subnetwork	0.60228608	1.17938486
GO:0017127	cholesterol transporter activity	0.60239679	1.179387593
GO:0090030	regulation of steroid hormone biosynthetic process	0.87087469	1.179390664
GO:0051093	negative regulation of developmental process	0.60897556	1.17940598
MP:0004779	abnormal production of surfactant	0.60480869	1.179408659
GO:0042744	hydrogen peroxide catabolic process	0.87155459	1.179408752
GO:0016053	organic acid biosynthetic process	0.60389056	1.179419543
ENSG00000099622	CIRBP subnetwork	0.60270469	1.179438262
GO:0006361	transcription initiation from RNA polymerase I promoter	0.60871637	1.179473891
MP:0002177	abnormal outer ear morphology	0.87086955	1.179500559
ENSG00000123374	CDK2 subnetwork	0.87113879	1.179515603
ENSG00000150787	PTS subnetwork	0.87155285	1.179518577
GO:0050832	defense response to fungus	0.8714743	1.179553921
ENSG00000154928	EPHB1 subnetwork	0.60923673	1.179555585
MP:0009435	abnormal miniature inhibitory postsynaptic currents	0.87082268	1.179559221
ENSG00000136861	CDK5RAP2 subnetwork	0.87126663	1.179559426
GO:0051904	pigment granule transport	0.87053951	1.179584227
ENSG00000087263	OGFOD1 subnetwork	0.87143053	1.179603241
MP:0001525	impaired balance	0.87079727	1.179622554
MP:0002920	decreased paired-pulse facilitation	0.87031426	1.17962514
GO:0000922	spindle pole	0.87113447	1.179625489
GO:0030301	cholesterol transport	0.87064	1.179632737
ENSG00000171346	KRT15 subnetwork	0.87072789	1.179648616
GO:0001503	ossification	0.87052866	1.179675555
GO:0006805	xenobiotic metabolic process	0.87030596	1.179707172
MP:0001158	abnormal prostate gland morphology	0.60922556	1.17971024
ENSG00000164022	AIMP1 subnetwork	0.87049203	1.179738928
REACTOME_REGULATION_OF_REACTOME_REGULATION_OF_APCC_ACTIVATORS_BETWEI		0.87029457	1.179793882
KEGG_SPHINGOLIPID_METABOLISM	KEGG_SPHINGOLIPID_METABOLISM	0.87019199	1.179801325
GO:0030324	lung development	0.8701859	1.179902052
ENSG00000145782	ATG12 subnetwork	0.87013096	1.179979476
GO:0045926	negative regulation of growth	0.61067049	1.179994766
ENSG00000179041	RRS1 subnetwork	0.87012463	1.180070909
MP:0003670	dilated renal glomerular capsule	0.60959203	1.180076026
ENSG00000111262	KCNA1 subnetwork	0.61226047	1.180090055
ENSG00000172006	ZNF554 subnetwork	0.61064181	1.180116462
MP:0001191	abnormal skin condition	0.61246316	1.180140919
MP:0009414	skeletal muscle fiber necrosis	0.61220292	1.180152722
REACTOME_3_UTR:MEDIATED	REACTOME_3_UTR:MEDIATED_TRANSLATIONAL_REGULATION	0.87011549	1.180181021
ENSG00000196890	HIST3H2BB subnetwork	0.61049046	1.180189791
GO:0033146	regulation of intracellular estrogen receptor signaling pathway	0.61061389	1.180198927
ENSG00000102144	PGK1 subnetwork	0.61241375	1.18022315
GO:0008081	phosphoric diester hydrolase activity	0.86934371	1.180223218
REACTOME_PURINE_METABOLISM	REACTOME_PURINE_METABOLISM	0.61201791	1.180229825
ENSG00000132698	RAB25 subnetwork	0.61039714	1.180236973
GO:0048814	regulation of dendrite morphogenesis	0.86959734	1.180238095
ENSG00000100505	TRIM9 subnetwork	0.86945124	1.180239074
ENSG00000057294	PKP2 subnetwork	0.61024654	1.180257988
ENSG00000087302	C14orf166 subnetwork	0.61133086	1.180271931
ENSG00000169862	CTNND2 subnetwork	0.61218539	1.180274151
GO:0034762	regulation of transmembrane transport	0.86931879	1.180286755

REACTOME_L13A:MEDIATED_TRANSLATIONAL_SILENCING		0.87011549	1.180291153
MP:0000792	abnormal cortical marginal zone morphology	0.86957207	1.180292278
GO:0032862	activation of Rho GTPase activity	0.61260674	1.180306588
GO:0006700	C21-steroid hormone biosynthetic process	0.61158064	1.180329369
MP:0005164	abnormal response to injury	0.61020497	1.180333988
ENSG00000012061	ERCC1 subnetwork	0.61048386	1.180337741
MP:0000934	abnormal telencephalon development	0.86926585	1.180340962
ENSG00000115524	SF3B1 subnetwork	0.6103815	1.180345685
ENSG00000168497	SDPR subnetwork	0.61199998	1.180357842
ENSG00000104064	GABPB1 subnetwork	0.6110632	1.180366252
ENSG00000184588	PDE4B subnetwork	0.61195831	1.1803814
ENSG00000065717	TLE2 subnetwork	0.61099778	1.180383307
GO:0045124	regulation of bone resorption	0.61130626	1.180387029
ENSG00000134686	PHC2 subnetwork	0.61217402	1.180389085
GO:0006098	pentose-phosphate shunt	0.87010659	1.180391974
ENSG00000108688	CCL7 subnetwork	0.61188205	1.180398432
ENSG00000065548	ZC3H15 subnetwork	0.61154817	1.180405229
GO:0015800	acidic amino acid transport	0.86923568	1.180423206
GO:0033197	response to vitamin E	0.8690993	1.18042422
ENSG00000071994	PDCD2 subnetwork	0.6101619	1.180436206
MP:0001134	absent corpus luteum	0.86995942	1.180439653
MP:0000872	abnormal cerebellum external granule cell layer morpholog	0.86917227	1.180454078
ENSG00000124610	HIST1H1A subnetwork	0.87008781	1.180474146
ENSG00000105894	PTN subnetwork	0.8690672	1.18047846
GO:0006090	pyruvate metabolic process	0.61126883	1.180495619
ENSG00000154978	VOPP1 subnetwork	0.61119153	1.180499608
MP:0000519	hydronephrosis	0.86994138	1.180503174
ENSG00000128591	FLNC subnetwork	0.61010878	1.180505699
GO:0043243	positive regulation of protein complex disassembly	0.61171957	1.180508364
ENSG00000077348	EXOSC5 subnetwork	0.61186548	1.18051999
ENSG00000079739	PGM1 subnetwork	0.86991419	1.180566707
ENSG00000073111	MCM2 subnetwork	0.60999358	1.180579216
GO:0061082	myeloid leukocyte cytokine production	0.86906597	1.180588785
ENSG00000153201	RANBP2 subnetwork	0.86898386	1.180610337
MP:0000074	abnormal neurocranium morphology	0.61008509	1.180627621
MP:0004678	split xiphoid process	0.61301789	1.180646844
GO:0001917	photoreceptor inner segment	0.61186128	1.180661179
MP:0010856	dilated respiratory conducting tubes	0.86897545	1.180692653
GO:0004712	protein serine/threonine/tyrosine kinase activity	0.60997367	1.180694626
ENSG00000205609	EIF3CL subnetwork	0.61297556	1.180716056
REACTOME_TRANSPORT_OF_THE_SLBP_INDEPENDENT_M		0.61311437	1.180721085
GO:0008635	activation of cysteine-type endopeptidase activity involved	0.86893934	1.180751613
ENSG00000111786	SRSF9 subnetwork	0.61293423	1.180752674
GO:0021903	rostrocaudal neural tube patterning	0.86714062	1.180810304
GO:0009218	pyrimidine ribonucleotide metabolic process	0.86745032	1.18081281
GO:0043968	histone H2A acetylation	0.86739895	1.180825061
GO:0060393	regulation of pathway-restricted SMAD protein phosphoryl	0.8670874	1.180845981
GO:0006418	tRNA aminoacylation for protein translation	0.86893002	1.180847981
REACTOME_METABOLISM_OF_CARBOHYDRATES		0.86733031	1.180851363
GO:0032008	positive regulation of TOR signaling cascade	0.86727071	1.180872986
REACTOME_GABA_SYNTHESIS_RELEASE_REUPTAKE_AND_I		0.86830568	1.180899139
GO:0007016	cytoskeletal anchoring at plasma membrane	0.86880017	1.180914532
ENSG00000112029	FBXO5 subnetwork	0.86888192	1.180930341

ENSG00000133019	CHRM3 subnetwork	0.86846271	1.180935454
ENSG00000115268	RPS15 subnetwork	0.86707529	1.18094725
GO:0031110	regulation of microtubule polymerization or depolymerization	0.86862161	1.180948373
ENSG00000102225	CDK16 subnetwork	0.86856636	1.180969975
GO:0051656	establishment of organelle localization	0.8684115	1.180975769
GO:0001525	angiogenesis	0.86703626	1.180987631
ENSG00000011465	DCN subnetwork	0.86876995	1.180992238
GO:0048485	sympathetic nervous system development	0.86830399	1.181009638
GO:0007623	circadian rhythm	0.86784254	1.181050463
GO:0016486	peptide hormone processing	0.86775102	1.181076779
MP:0003052	omphalocele	0.86701303	1.181079561
GO:0007276	gamete generation	0.86828132	1.181096762
ENSG00000142945	KIF2C subnetwork	0.86692644	1.181174431
ENSG00000205726	ITSN1 subnetwork	0.86700822	1.181185567
GO:0030641	regulation of cellular pH	0.868271	1.181193262
ENSG00000110717	NDUFS8 subnetwork	0.86675651	1.181194338
GO:0043488	regulation of mRNA stability	0.86802494	1.181197341
ENSG00000065268	WDR18 subnetwork	0.86686945	1.181228909
ENSG00000214869	ENSG00000214869 subnetwork	0.86820785	1.18122894
MP:0001178	pulmonary hypoplasia	0.86619789	1.181252345
GO:0034312	diol biosynthetic process	0.86612267	1.181259968
GO:0006878	cellular copper ion homeostasis	0.86815014	1.181264626
MP:0003915	increased left ventricle weight	0.86674014	1.181281643
MP:0009907	decreased tongue size	0.86631413	1.181286934
ENSG00000175324	LSM1 subnetwork	0.86588359	1.181329767
ENSG00000115361	ACADL subnetwork	0.6136122	1.181338808
MP:0001745	increased circulating corticosterone level	0.86584877	1.181370249
GO:0009713	catechol-containing compound biosynthetic process	0.86612267	1.181370801
ENSG00000025796	SEC63 subnetwork	0.86673424	1.181383029
ENSG00000163430	FSTL1 subnetwork	0.61372741	1.181419447
ENSG00000197905	TEAD4 subnetwork	0.8657026	1.181427767
ENSG00000188419	CHM subnetwork	0.8657922	1.18142951
ENSG00000105701	FKBP8 subnetwork	0.61357654	1.181447197
GO:0005243	gap junction channel activity	0.86565103	1.181468269
GO:0006536	glutamate metabolic process	0.8666994	1.181470368
GO:0042423	catecholamine biosynthetic process	0.86612267	1.181481655
MP:0001106	abnormal Schwann cell morphology	0.8665518	1.181518477
ENSG00000142528	ZNF473 subnetwork	0.8656049	1.18153225
GO:0071295	cellular response to vitamin	0.86669012	1.18157179
GO:0048742	regulation of skeletal muscle fiber development	0.86521042	1.181584633
ENSG00000180902	D2HGDH subnetwork	0.86558319	1.181615023
ENSG00000147082	CCNB3 subnetwork	0.86508395	1.181628147
GO:0000380	alternative nuclear mRNA splicing, via spliceosome	0.86517257	1.181643964
GO:0043542	endothelial cell migration	0.86540191	1.181689678
ENSG00000160299	PCNT subnetwork	0.86504922	1.181701588
ENSG00000215692	ENSG00000215692 subnetwork	0.86558319	1.181725984
MP:0000048	abnormal stria vascularis morphology	0.61397464	1.181734654
GO:0031344	regulation of cell projection organization	0.86501502	1.181742154
GO:0004549	tRNA-specific ribonuclease activity	0.86555238	1.18180879
GO:0005790	smooth endoplasmic reticulum	0.86498156	1.181815619
GO:0030325	adrenal gland development	0.8649738	1.181907895
GO:0034109	homotypic cell-cell adhesion	0.86153137	1.181940383
ENSG00000125965	GDF5 subnetwork	0.86150664	1.181995283

GO:0015171	amino acid transmembrane transporter activity	0.86496946	1.182018987
ENSG00000137767	SQRDL subnetwork	0.86478585	1.182034408
GO:0005902	microvillus	0.8614859	1.182059628
MP:0000477	abnormal intestine morphology	0.86183907	1.182061681
GO:0030299	intestinal cholesterol absorption	0.86232913	1.1820624
GO:0015701	bicarbonate transport	0.86172725	1.182064705
ENSG00000112640	PPP2R5D subnetwork	0.86081303	1.182076095
ENSG00000100227	POLDIP3 subnetwork	0.86140343	1.182076807
ENSG00000114346	ECT2 subnetwork	0.8607062	1.182079124
GO:0030018	Z disc	0.86134786	1.182112862
GO:0032288	myelin assembly	0.86477392	1.182122038
ENSG00000171848	RRM2 subnetwork	0.86496398	1.1821254
MP:0008877	abnormal DNA methylation	0.86229888	1.182126697
GO:0048520	positive regulation of behavior	0.86064995	1.182129367
MP:0001968	abnormal touch/ nociception	0.86125472	1.182134768
ENSG00000136450	SRSF1 subnetwork	0.61425066	1.182167058
ENSG00000125810	CD93 subnetwork	0.86215802	1.182175184
ENSG00000139668	WDFY2 subnetwork	0.8605997	1.18217962
ENSG00000168542	COL3A1 subnetwork	0.86365667	1.182197326
GO:0009410	response to xenobiotic stimulus	0.86474307	1.182204984
ENSG00000108848	LUC7L3 subnetwork	0.86201443	1.182214259
ENSG00000154188	ANGPT1 subnetwork	0.86101906	1.18221467
GO:0051219	phosphoprotein binding	0.86209305	1.182215936
ENSG00000170275	CRTAP subnetwork	0.86258775	1.182224317
ENSG00000158290	CUL4B subnetwork	0.86124663	1.182232185
ENSG00000164442	CITED2 subnetwork	0.86229833	1.182238145
MP:0010454	abnormal truncus arteriosus septation	0.86434078	1.18224365
GO:0031268	pseudopodium organization	0.86115469	1.182244667
GO:0030667	secretory granule membrane	0.86273686	1.182263689
GO:0001706	endoderm formation	0.86459913	1.182267469
GO:0048525	negative regulation of viral reproduction	0.86058032	1.182277106
GO:0034435	cholesterol esterification	0.86363824	1.182280388
MP:0008271	abnormal bone ossification	0.86290209	1.182295298
GO:0071616	acyl-CoA biosynthetic process	0.86328279	1.182306678
ENSG00000121552	CSTA subnetwork	0.86428967	1.182307837
GO:0043552	positive regulation of phosphatidylinositol 3-kinase activity	0.61442602	1.182312704
GO:0071466	cellular response to xenobiotic stimulus	0.86474307	1.182316156
MP:0004921	decreased placenta weight	0.86421386	1.182320286
ENSG00000104408	EIF3E subnetwork	0.86283996	1.182331323
GO:0015833	peptide transport	0.86415085	1.182337442
MP:0003910	decreased eating behavior	0.86410211	1.182359307
GO:0007566	embryo implantation	0.86459513	1.182359857
MP:0009331	absent primitive node	0.61485632	1.182372087
MP:0004180	failure of initiation of embryo turning	0.86454184	1.182381714
ENSG00000104290	FZD3 subnetwork	0.61480069	1.182382813
GO:0045071	negative regulation of viral genome replication	0.86058032	1.182388779
GO:0034433	steroid esterification	0.86363824	1.182391714
GO:0002026	regulation of the force of heart contraction	0.85862295	1.1823961
MP:0001409	increased stereotypic behavior	0.86052414	1.182415454
GO:0035384	thioester biosynthetic process	0.86328279	1.182418048
ENSG00000182934	SRPR subnetwork	0.85856277	1.182422837
MP:0010819	primary atelectasis	0.86407675	1.182442353
ENSG00000185518	SV2B subnetwork	0.86399726	1.182450113

GO:0009074	aromatic amino acid family catabolic process	0.86321945	1.182458785
MP:0000131	abnormal long bone epiphysis morphology	0.85873728	1.182459296
GO:0000737	DNA catabolic process, endonucleolytic	0.86009576	1.182462193
REACTOME_PASSIVE_TRANSPC	REACTOME_PASSIVE_TRANSPORT_BY_AQUAPORINS	0.86392703	1.182462581
MP:0002216	abnormal seminiferous tubule morphology	0.86351755	1.182473159
GO:0040036	regulation of fibroblast growth factor receptor signaling pat	0.86050563	1.182484648
REACTOME_GTP_HYDROLYSIS_	REACTOME_GTP_HYDROLYSIS_AND_JOINING_OF_THE_60S	0.85941321	1.182494561
GO:0050926	regulation of positive chemotaxis	0.61477959	1.182497721
MP:0010867	abnormal bone trabecula morphology	0.86314024	1.182499529
MP:0004738	abnormal brainstem auditory evoked potential	0.86041577	1.18250189
GO:0034434	sterol esterification	0.86363824	1.182503061
MP:0001302	eyelids open at birth	0.858541	1.182506391
ENSG00000187741	FANCA subnetwork	0.85933525	1.182507096
ENSG00000084623	EIF3I subnetwork	0.85887239	1.182508282
ENSG00000140988	RPS2 subnetwork	0.8592226	1.182519633
GO:0050994	regulation of lipid catabolic process	0.85916279	1.182527441
GO:0010594	regulation of endothelial cell migration	0.85898313	1.182533598
GO:0001763	morphogenesis of a branching structure	0.61504614	1.182543608
GO:0006363	termination of RNA polymerase I transcription	0.61472001	1.182554051
GO:0006309	apoptotic DNA fragmentation	0.86009576	1.182573967
GO:0046527	glucosyltransferase activity	0.86039591	1.182594727
ENSG00000078295	ADCY2 subnetwork	0.85842907	1.182607254
GO:0006595	polyamine metabolic process	0.8585236	1.182608902
ENSG00000171314	PGAM1 subnetwork	0.85954678	1.182628642
ENSG00000148248	SURF4 subnetwork	0.85916093	1.182634617
GO:0006740	NADPH regeneration	0.85972344	1.182646113
GO:0017145	stem cell division	0.85841109	1.182667172
KEGG_MELANOGENESIS	KEGG_MELANOGENESIS	0.8596552	1.182672846
GO:0048864	stem cell development	0.86009219	1.182685763
GO:0021533	cell differentiation in hindbrain	0.61462566	1.182692809
ENSG00000139835	GRTP1 subnetwork	0.61470188	1.182695063
ENSG00000198400	NTRK1 subnetwork	0.86039529	1.182706483
REACTOME_SYNTHESIS_OF_BI	REACTOME_SYNTHESIS_OF_BILE_ACIDS_AND_BILE_SALTS	0.6152722	1.182743363
GO:0009452	RNA capping	0.85838817	1.182760254
REACTOME_RAS_ACTIVATION_	REACTOME_RAS_ACTIVATION_UOPN_CA2_INFUX_THROU	0.86008273	1.182788125
ENSG00000114841	DNAH1 subnetwork	0.86036911	1.182789906
ENSG00000167792	NDUFV1 subnetwork	0.85833511	1.182810724
ENSG00000130208	APOC1 subnetwork	0.86005486	1.182852685
MP:0010209	abnormal circulating chemokine level	0.61526596	1.182877782
GO:0046434	organophosphate catabolic process	0.85830692	1.182903837
GO:0005041	low-density lipoprotein receptor activity	0.86002217	1.182926714
GO:0022011	myelination in peripheral nervous system	0.85825254	1.18295433
ENSG00000151748	SAV1 subnetwork	0.61617075	1.182969319
ENSG00000126215	XRCC3 subnetwork	0.61624811	1.18300403
GO:0006890	retrograde vesicle-mediated transport, Golgi to ER	0.6163608	1.183006239
ENSG00000174791	RIN1 subnetwork	0.61575988	1.183055809
GO:0032292	peripheral nervous system axon ensheathment	0.85825254	1.183066427
MP:0009171	enlarged pancreatic islets	0.61615231	1.18311663
GO:0001569	patterning of blood vessels	0.61662889	1.183116799
MP:0002703	abnormal renal tubule morphology	0.85824235	1.183169067
MP:0003560	osteoarthritis	0.61573462	1.1831707
GO:0034394	protein localization at cell surface	0.85791767	1.183214827
GO:0006213	pyrimidine nucleoside metabolic process	0.61662148	1.183257536

ENSG00000167136	ENDOG subnetwork	0.61596276	1.183266129
GO:0032855	positive regulation of Rac GTPase activity	0.61614504	1.183270481
ENSG00000119421	NDUFA8 subnetwork	0.85823063	1.183276467
ENSG00000144554	FANCD2 subnetwork	0.61571655	1.18330514
ENSG00000180098	TRNAU1AP subnetwork	0.85791581	1.183322272
GO:0015631	tubulin binding	0.85811989	1.183353872
ENSG00000169189	NSMCE1 subnetwork	0.85821192	1.183364929
ENSG00000198056	PRIM1 subnetwork	0.61659609	1.183365822
GO:0046164	alcohol catabolic process	0.61609727	1.183378853
ENSG00000140262	TCF12 subnetwork	0.85787708	1.183420254
GO:0048265	response to pain	0.85779296	1.18344239
GO:0030168	platelet activation	0.61688598	1.183456742
ENSG00000122705	CLTA subnetwork	0.85775481	1.183521434
ENSG00000189319	FAM53B subnetwork	0.61704615	1.183549812
ENSG00000130176	CNN1 subnetwork	0.85741234	1.183622735
ENSG00000030304	MUSK subnetwork	0.85775295	1.183633691
REACTOME_LYSOSOME_VESICLE_BIOGENESIS	REACTOME_LYSOSOME_VESICLE_BIOGENESIS	0.85732906	1.183640159
ENSG00000087470	DNM1L subnetwork	0.61769749	1.183642616
ENSG00000145241	CENPC1 subnetwork	0.85717978	1.183670273
ENSG00000157916	RER1 subnetwork	0.61777105	1.183670689
ENSG00000215754	ENSG00000215754 subnetwork	0.85769003	1.183674825
GO:0071900	regulation of protein serine/threonine kinase activity	0.61748248	1.183707646
GO:0030276	clathrin binding	0.8575417	1.183709677
ENSG00000161681	SHANK1 subnetwork	0.85712896	1.18372093
MP:0003212	increased susceptibility to age related obesity	0.8573157	1.18373351
MP:0004970	kidney atrophy	0.85700295	1.183736827
MP:0000288	abnormal pericardium morphology	0.61766434	1.183737833
ENSG00000163513	TGFBR2 subnetwork	0.61741208	1.183750974
GO:0033143	regulation of intracellular steroid hormone receptor signaling	0.61757404	1.183755192
MP:0003545	increased alcohol consumption	0.85707016	1.183762104
ENSG00000117118	SDHB subnetwork	0.6172559	1.183766234
MP:0001658	increased mortality induced by gamma-irradiation	0.61733296	1.183774834
GO:0006879	cellular iron ion homeostasis	0.85767825	1.18377763
GO:0000165	MAPK cascade	0.6178886	1.183796056
ENSG00000109917	ZNF259 subnetwork	0.85699334	1.183839727
GO:0007599	hemostasis	0.61801169	1.183856531
ENSG00000100316	RPL3 subnetwork	0.61817465	1.183886655
GO:0043161	proteasomal ubiquitin-dependent protein catabolic process	0.85688819	1.183931624
ENSG00000169118	CSNK1G1 subnetwork	0.85697776	1.183937898
ENSG00000171401	KRT13 subnetwork	0.85683879	1.183987083
GO:0000722	telomere maintenance via recombination	0.61817387	1.184040208
ENSG00000166225	FRS2 subnetwork	0.85682203	1.184080547
ENSG00000126456	IRF3 subnetwork	0.85678671	1.184145531
GO:0016209	antioxidant activity	0.61847049	1.184195514
GO:0042149	cellular response to glucose starvation	0.85677687	1.184258028
GO:0031670	cellular response to nutrient	0.85670146	1.184299287
GO:0045785	positive regulation of cell adhesion	0.61862009	1.184307752
ENSG00000185345	PARK2 subnetwork	0.61845706	1.184323133
GO:0015035	protein disulfide oxidoreductase activity	0.85642932	1.184340842
GO:0042470	melanosome	0.85666972	1.184354808
MP:0003105	abnormal heart atrium morphology	0.85637499	1.184386882
ENSG00000132464	ENAM subnetwork	0.85622551	1.184388667
ENSG00000158022	TRIM63 subnetwork	0.85630726	1.184409164

GO:0014812	muscle cell migration	0.85618504	1.184434725
GO:0048770	pigment granule	0.85666972	1.184467357
GO:0070206	protein trimerization	0.61978101	1.184487445
REACTOME_DEPOSITION_OF_I	REACTOME_DEPOSITION_OF_NEW_CENPA:CONTAINING_N	0.61928007	1.184529206
ENSG00000132688	NES subnetwork	0.85617789	1.184542602
GO:0015669	gas transport	0.85664549	1.184551416
GO:0051209	release of sequestered calcium ion into cytosol	0.61974397	1.184582524
ENSG00000163754	GYG1 subnetwork	0.85617215	1.184645744
ENSG00000101367	MAPRE1 subnetwork	0.61895787	1.184655262
REACTOME_NUCLEOSOME_AS	REACTOME_NUCLEOSOME_ASSEMBLY	0.61928007	1.184682642
GO:0015294	solute:cation symporter activity	0.61951688	1.184693085
ENSG00000204217	BMPR2 subnetwork	0.6192058	1.184726001
GO:0051282	regulation of sequestering of calcium ion	0.61974397	1.184735888
GO:0001892	embryonic placenta development	0.61891474	1.184737524
REACTOME_DUAL_INCISION_R	REACTOME_DUAL_INCISION_REACTION_IN_TC:NER	0.85616886	1.184753662
MP:0003691	abnormal microglial cell physiology	0.8560532	1.184817352
GO:0003785	actin monomer binding	0.6191814	1.184821197
REACTOME_FORMATION_OF_	REACTOME_FORMATION_OF_TRANSCRIPTION:COUPLED_N	0.85616886	1.184866356
MP:0005618	decreased urine potassium level	0.6191195	1.184877543
GO:0051283	negative regulation of sequestering of calcium ion	0.61974397	1.184889292
KEGG_REGULATION_OF_AUTO	KEGG_REGULATION_OF_AUTOPHAGY	0.85603439	1.184896775
GO:0000152	nuclear ubiquitin ligase complex	0.85599103	1.184957184
ENSG00000120498	TEX11 subnetwork	0.62032831	1.184974127
ENSG00000170743	SYT9 subnetwork	0.85594931	1.185022362
ENSG00000130119	GNL3L subnetwork	0.62090585	1.185031024
ENSG00000111142	METAP2 subnetwork	0.62031345	1.185101566
ENSG00000036257	CUL3 subnetwork	0.8550585	1.185108106
MP:0002777	absent ovarian follicles	0.85593013	1.185111344
GO:0042752	regulation of circadian rhythm	0.85514949	1.185119048
MP:0010825	abnormal lung saccule morphology	0.85470282	1.185140543
ENSG00000115307	AUP1 subnetwork	0.85481369	1.185146723
MP:0009050	dilated proximal convoluted tubules	0.62018023	1.185149476
ENSG000000057663	ATG5 subnetwork	0.85536237	1.185150448
GO:0070085	glycosylation	0.62106704	1.185155745
MP:0001728	failure of embryo implantation	0.62088366	1.185158371
ENSG00000068354	TBC1D25 subnetwork	0.85490589	1.185167191
ENSG00000134333	LDHA subnetwork	0.85546625	1.185185185
ENSG00000174851	YIF1A subnetwork	0.6207952	1.185195242
ENSG00000130724	CHMP2A subnetwork	0.85503484	1.18519718
GO:0010737	protein kinase A signaling cascade	0.85440499	1.185211133
ENSG00000133773	CCDC59 subnetwork	0.8559173	1.185219378
GO:0045132	meiotic chromosome segregation	0.62029754	1.185229037
ENSG00000171703	TCEA2 subnetwork	0.85469353	1.18523442
ENSG00000111845	PAK1IP1 subnetwork	0.85566014	1.185253237
ENSG00000171497	PPID subnetwork	0.85534744	1.185253785
GO:0009595	detection of biotic stimulus	0.85451695	1.185255433
ENSG00000198804	MT-CO1 subnetwork	0.85583736	1.185270322
ENSG00000166478	ZNF143 subnetwork	0.62066665	1.185281945
ENSG00000125977	EIF2S2 subnetwork	0.85439985	1.185324118
GO:0009913	epidermal cell differentiation	0.85430864	1.185332253
GO:0009268	response to pH	0.62077797	1.185335575
ENSG00000136573	BLK subnetwork	0.85469312	1.185347374
GO:0045095	keratin filament	0.62061646	1.185351184

ENSG00000212875	ENSG00000212875 subnetwork	0.85583736	1.185383151
GO:0046466	membrane lipid catabolic process	0.85430577	1.185440503
GO:0051015	actin filament binding	0.62129511	1.185493668
ENSG00000150086	GRIN2B subnetwork	0.85420351	1.185523555
GO:0030149	sphingolipid catabolic process	0.85430577	1.185553542
ENSG00000122218	COPA subnetwork	0.85410233	1.185573254
ENSG00000108469	RECQL5 subnetwork	0.62507133	1.185627088
ENSG00000100934	SEC23A subnetwork	0.8541965	1.185631855
GO:0043500	muscle adaptation	0.85408686	1.185657732
ENSG00000073536	NLE1 subnetwork	0.62517493	1.18566748
ENSG00000106392	C1GALT1 subnetwork	0.85402645	1.185694524
MP:0000242	impaired fertilization	0.8507916	1.185698554
ENSG00000173991	TCAP subnetwork	0.62502801	1.185715204
ENSG00000150995	ITPR1 subnetwork	0.85087588	1.185733435
ENSG00000214078	CPNE1 subnetwork	0.62530202	1.185739979
REACTOME_GLYCEROLIPID_METABOLISM	REACTOME_GLYCEROLIPID_METABOLISM	0.8540013	1.185774258
MP:0001176	abnormal lung development	0.85078065	1.185792952
ENSG00000197548	ATG7 subnetwork	0.62498287	1.185822622
ENSG00000120896	SORBS3 subnetwork	0.85390001	1.185866972
GO:0044243	multicellular organismal catabolic process	0.85040578	1.185877168
ENSG00000188153	COL4A5 subnetwork	0.85399629	1.185882634
GO:0016051	carbohydrate biosynthetic process	0.85076206	1.185887367
GO:0043279	response to alkaloid	0.85067987	1.185895594
GO:0009167	purine ribonucleoside monophosphate metabolic process	0.62555009	1.185897765
GO:0072079	nephron tubule formation	0.85383684	1.185913342
GO:0006200	ATP catabolic process	0.85062656	1.18594214
GO:0007548	sex differentiation	0.85126142	1.18595425
REACTOME_GPCR_LIGAND_BINDING	REACTOME_GPCR_LIGAND_BINDING	0.85380321	1.185959721
GO:0019438	aromatic compound biosynthetic process	0.85054214	1.185959954
ENSG00000145692	BHMT subnetwork	0.62333267	1.185961861
GO:0034067	protein localization in Golgi apparatus	0.62345506	1.185963669
ENSG00000182944	EWSR1 subnetwork	0.85108499	1.18597415
ENSG00000145375	SPATA5 subnetwork	0.62498263	1.185975061
MP:0002633	persistent truncus arteriosus	0.85037379	1.185976428
REACTOME_TRANS:GOLGI_NETWORK_VESICLE_BUDDING	REACTOME_TRANS:GOLGI_NETWORK_VESICLE_BUDDING	0.62327714	1.185992268
GO:0005507	copper ion binding	0.85196103	1.18599847
GO:0009065	glutamine family amino acid catabolic process	0.84288663	1.186
GO:0014015	positive regulation of gliogenesis	0.62201546	1.186027893
GO:0004364	glutathione transferase activity	0.85125235	1.186039054
ENSG00000111361	EIF2B1 subnetwork	0.85032549	1.186046957
GO:0009126	purine nucleoside monophosphate metabolic process	0.62555009	1.186050096
ENSG00000092208	GEMIN2 subnetwork	0.62495366	1.186063255
ENSG00000142541	RPL13A subnetwork	0.853797	1.186063383
GO:0072655	establishment of protein localization in mitochondrion	0.62196986	1.186077748
MP:0000592	short tail	0.85192867	1.186078431
MP:0008260	abnormal autophagy	0.85120504	1.186080796
ENSG00000109220	CHIC2 subnetwork	0.84303242	1.186097962
ENSG00000137693	YAP1 subnetwork	0.85029544	1.186103124
GO:0010810	regulation of cell-substrate adhesion	0.84287425	1.186104938
GO:0030323	respiratory tube development	0.84277138	1.186113259
KEGG_FRUCTOSE_AND_MANNAN_METABOLISM	KEGG_FRUCTOSE_AND_MANNAN_METABOLISM	0.62319601	1.186136891
GO:0052312	modulation of transcription in other organism involved in sex	0.62491655	1.186138614
REACTOME_CLATHRIN_DERIVED_VESICLE_BUDDING	REACTOME_CLATHRIN_DERIVED_VESICLE_BUDDING	0.62327714	1.186145122

GO:0051701	interaction with host	0.85378106	1.186162291
MP:0001944	abnormal pancreas morphology	0.85189823	1.186163191
GO:0031099	regeneration	0.6219317	1.186179282
MP:0003806	abnormal nucleotide metabolism	0.85154118	1.186180496
GO:0009064	glutamine family amino acid metabolic process	0.84237126	1.186188727
ENSG00000211653	ENSG00000211653 subnetwork	0.62467008	1.186197582
MP:0002175	decreased brain weight	0.84274253	1.186198898
REACTOME_ASSOCIATION_OF_REACTOME_ASSOCIATION_OF_TRICCCT_WITH_TARGET_PF		0.84247298	1.186209397
ENSG00000112851	ERBB2IP subnetwork	0.85029382	1.186216812
REACTOME_LOSS_OF_NLP_FROM_REACTOME_LOSS_OF_NLP_FROM_MITOTIC_CENTROSOME		0.62439202	1.18621799
GO:0010972	negative regulation of G2/M transition of mitotic cell cycle	0.84268001	1.186221728
GO:0071371	cellular response to gonadotropin stimulus	0.62315364	1.186225345
ENSG00000048540	LMO3 subnetwork	0.85368298	1.186226487
ENSG00000113812	ACTR8 subnetwork	0.62488445	1.186226852
GO:0014068	positive regulation of phosphatidylinositol 3-kinase cascade	0.85188131	1.186233617
GO:0031269	pseudopodium assembly	0.85361753	1.186249045
GO:0051593	response to folic acid	0.8517037	1.18625012
GO:0016712	oxidoreductase activity, acting on paired donors, with incorporation	0.62477893	1.186257235
ENSG00000213397	HAUS7 subnetwork	0.85182387	1.186261003
ENSG00000104879	CKM subnetwork	0.85376854	1.186265992
MP:0001938	delayed sexual maturation	0.62290737	1.186271602
GO:0046939	nucleotide phosphorylation	0.84235102	1.186274415
KEGG_PURINE_METABOLISM	KEGG_PURINE_METABOLISM	0.62451939	1.186277663
ENSG00000130592	LSP1 subnetwork	0.84263543	1.186292895
REACTOME_TRANSCRIPTION	REACTOME_TRANSCRIPTION	0.62285363	1.186295627
GO:0000266	mitochondrial fission	0.85024958	1.186301764
ENSG00000137642	SORL1 subnetwork	0.84970844	1.186313063
GO:0000041	transition metal ion transport	0.85244824	1.186318004
MP:0008657	increased interleukin-1 beta secretion	0.62191836	1.186319597
ENSG00000106258	CYP3A5 subnetwork	0.62276274	1.186319659
ENSG00000124789	NUP153 subnetwork	0.62230926	1.186321973
MP:0000774	decreased brain size	0.8432725	1.186331144
MP:0011495	abnormal head shape	0.62312942	1.186333161
ENSG00000078668	VDAC3 subnetwork	0.85013913	1.186347076
ENSG00000140525	FANCI subnetwork	0.62173669	1.186348365
ENSG00000103351	CLUAP1 subnetwork	0.85331454	1.186348873
GO:0009620	response to fungus	0.85169959	1.186349282
ENSG00000211660	ENSG00000211660 subnetwork	0.62467008	1.186350187
MP:0004145	abnormal muscle electrophysiology	0.84231602	1.18635045
GO:0015721	bile acid and bile salt transport	0.85361514	1.186352784
REACTOME_CELL_JUNCTION_ORGANIZATION	REACTOME_CELL_JUNCTION_ORGANIZATION	0.62385221	1.186360124
ENSG00000168172	HOOK3 subnetwork	0.62378189	1.186364807
ENSG00000176170	SPHK1 subnetwork	0.8502346	1.186367558
ENSG00000184117	NIPSNAP1 subnetwork	0.84225713	1.186368472
GO:0060053	neurofilament cytoskeleton	0.85344266	1.186369281
REACTOME_LOSS_OF_PROTEIN_REACTOME_LOSS_OF_PROTEINS_REQUIRED_FOR_INTERPHASE		0.62439202	1.186370656
ENSG00000129824	RPS4Y1 subnetwork	0.84984046	1.186371919
GO:0060205	cytoplasmic membrane-bounded vesicle lumen	0.84967287	1.186378897
GO:0045599	negative regulation of fat cell differentiation	0.62431325	1.186381774
ENSG00000184983	NDUFA6 subnetwork	0.85009892	1.186398504
MP:0001011	abnormal superior cervical ganglion morphology	0.62307041	1.186402321
ENSG00000106400	ZNHIT1 subnetwork	0.85256075	1.186414914
GO:0015248	sterol transporter activity	0.8524276	1.186417097

ENSG00000115866	DARS subnetwork	0.8535867	1.186427889
ENSG00000138698	RAP1GDS1 subnetwork	0.85330244	1.186433553
ENSG00000133216	EPHB2 subnetwork	0.85002659	1.186435558
ENSG00000138308	PLA2G12B subnetwork	0.62229966	1.186436411
ENSG00000123384	LRP1 subnetwork	0.84962405	1.18644954
MP:0008807	increased liver iron level	0.62428962	1.186450824
ENSG00000167996	FTH1 subnetwork	0.62191046	1.186453488
GO:0010922	positive regulation of phosphatase activity	0.85322394	1.186470476
ENSG0000021461	CYP3A43 subnetwork	0.62276274	1.186472713
GO:0006144	purine base metabolic process	0.62422077	1.186474829
ENSG00000185010	F8 subnetwork	0.8422401	1.186478383
REACTOME_HEXOSE_TRANSPC	REACTOME_HEXOSE_TRANSPORT	0.62266424	1.186483871
ENSG00000169744	LDB2 subnetwork	0.84956826	1.186491413
GO:0001539	ciliary or flagellar motility	0.85274068	1.186507026
GO:0005769	early endosome	0.85314082	1.186507406
ENSG00000115266	APC2 subnetwork	0.62254867	1.186512648
GO:0032648	regulation of interferon-beta production	0.85240888	1.186516209
MP:0010377	abnormal gut flora balance	0.62261692	1.186533746
ENSG00000124535	WRNIP1 subnetwork	0.6224797	1.186536724
GO:0000407	pre-autophagosomal structure	0.84419643	1.1865457
GO:0035121	tail morphogenesis	0.84817265	1.186560638
MP:0004182	abnormal spermiation	0.8486671	1.186573185
ENSG00000037241	RPL26L1 subnetwork	0.85300965	1.186581286
ENSG00000139433	GLTP subnetwork	0.62414716	1.186582539
GO:0070936	protein K48-linked ubiquitination	0.85310962	1.186582569
GO:0030216	keratinocyte differentiation	0.84223014	1.186588315
ENSG00000101199	ARFGAP1 subnetwork	0.84443925	1.186596545
ENSG00000105829	BET1 subnetwork	0.84956269	1.186600461
ENSG00000170310	STX8 subnetwork	0.84435824	1.186614553
ENSG00000143632	ACTA1 subnetwork	0.62408732	1.186619446
REACTOME_GO_AND_EARLY_C	REACTOME_GO_AND_EARLY_G1	0.84948723	1.186623165
REACTOME_ASSOCIATION_OF_	REACTOME_ASSOCIATION_OF_LICENSING_FACTORS_WITH	0.84838747	1.186625673
ENSG00000160062	ZBTB8A subnetwork	0.84938854	1.186626679
ENSG00000167880	EVPL subnetwork	0.8441922	1.186650579
ENSG00000115947	ORC4 subnetwork	0.848329	1.186653214
GO:0060389	pathway-restricted SMAD protein phosphorylation	0.85299232	1.186666029
ENSG00000197728	RPS26 subnetwork	0.84817163	1.186674676
ENSG00000010256	UQCRC1 subnetwork	0.84858031	1.186681076
MP:0005423	abnormal somatic nervous system physiology	0.84866542	1.186687158
ENSG00000156110	ADK subnetwork	0.84935251	1.186687782
ENSG00000086827	ZW10 subnetwork	0.84221444	1.186698268
ENSG00000116106	EPHA4 subnetwork	0.84917271	1.186731951
GO:0008211	glucocorticoid metabolic process	0.84925272	1.186733225
MP:0001297	microphthalmia	0.84460917	1.18674257
GO:0051648	vesicle localization	0.84416311	1.186755478
ENSG00000130396	MLLT4 subnetwork	0.84216245	1.186774381
GO:0006415	translational termination	0.84158422	1.186775099
REACTOME_REGULATION_OF_	REACTOME_REGULATION_OF_INSULIN_SECRETION_BY_GL	0.84480953	1.186783716
ENSG00000196656	ENSG00000196656 subnetwork	0.84817163	1.186788735
GO:0008209	androgen metabolic process	0.84150568	1.186793184
GO:0034502	protein localization to chromosome	0.84857952	1.186795081
ENSG00000100461	RBM23 subnetwork	0.84894503	1.186800154
GO:0005930	axoneme	0.84740076	1.186801347

GO:0071285	cellular response to lithium ion	0.8493525	1.186801689
ENSG00000014138	POLA2 subnetwork	0.84373464	1.186805757
ENSG00000188428	MUTED subnetwork	0.84395983	1.186814407
GO:0015918	sterol transport	0.84810191	1.186816303
MP:0003632	abnormal nervous system morphology	0.84389976	1.18682762
REACTOME_FORMATION_OF_	REACTOME_FORMATION_OF_A_POOL_OF_FREE_40S_SUB	0.84803405	1.186829456
ENSG00000089169	RPH3A subnetwork	0.84915471	1.186836294
GO:0002577	regulation of antigen processing and presentation	0.84792983	1.186842611
ENSG00000066933	MYO9A subnetwork	0.84413891	1.186845916
ENSG00000107290	SETX subnetwork	0.84906812	1.186849433
ENSG00000118402	ELOVL4 subnetwork	0.84384608	1.186860151
ENSG00000154723	ATP5J subnetwork	0.84704534	1.186863632
ENSG00000106366	SERPINE1 subnetwork	0.84181289	1.186864776
ENSG00000171560	FGA subnetwork	0.84214782	1.186865022
ENSG00000172638	EFEMP2 subnetwork	0.84758791	1.18688564
ENSG00000137996	RTCD1 subnetwork	0.84480766	1.186888567
GO:0008334	histone mRNA metabolic process	0.84698809	1.186891242
GO:0042246	tissue regeneration	0.84147363	1.18689358
ENSG00000168477	TNXB subnetwork	0.84140415	1.186906837
GO:0055070	copper ion homeostasis	0.84739551	1.186910718
GO:0009072	aromatic amino acid family metabolic process	0.84694334	1.186933295
MP:0005217	abnormal pancreatic beta cell morphology	0.84202733	1.186935062
GO:0002064	epithelial cell development	0.842119	1.186936327
ENSG00000149806	FAU subnetwork	0.84412339	1.186936372
ENSG00000181104	F2R subnetwork	0.84542688	1.186940802
ENSG00000062725	APPBP2 subnetwork	0.84791753	1.186942308
ENSG00000153767	GTF2E1 subnetwork	0.6262341	1.186946192
ENSG00000087303	NID2 subnetwork	0.84724571	1.186956313
ENSG00000115241	PPM1G subnetwork	0.84733564	1.186957568
ENSG00000181072	CHRM2 subnetwork	0.84787477	1.186960285
KEGG_DRUG_METABOLISM_C	KEGG_DRUG_METABOLISM_CYTOCHROME_P450	0.84195799	1.186962834
GO:0034364	high-density lipoprotein particle	0.62636663	1.186967129
REACTOME_PROCESSING_OF_	REACTOME_PROCESSING_OF_INTRONLESS_PRE:MRNAS	0.84519953	1.186970778
KEGG_NITROGEN_METABOLIS	KEGG_NITROGEN_METABOLISM	0.84180665	1.186974831
MP:0010878	increased trabecular bone volume	0.84778062	1.186983074
GO:0043028	cysteine-type endopeptidase regulator activity involved in	0.84758612	1.186994998
GO:0070498	interleukin-1-mediated signaling pathway	0.84690092	1.186999422
GO:0008378	galactosyltransferase activity	0.84677745	1.187007798
MP:0003938	abnormal ear development	0.84572457	1.187021687
MP:0002625	heart left ventricle hypertrophy	0.84140229	1.187021792
GO:0008207	C21-steroid hormone metabolic process	0.62646742	1.187026576
ENSG00000069329	VPS35 subnetwork	0.845327	1.187029894
GO:0045333	cellular respiration	0.84516427	1.187037037
MP:0003354	astrocytosis	0.84556957	1.187038465
ENSG00000163288	GABRB1 subnetwork	0.84541076	1.187045608
ENSG00000143627	PKLR subnetwork	0.84673102	1.187049875
GO:0002495	antigen processing and presentation of peptide antigen via	0.84055052	1.187055173
GO:0042074	cell migration involved in gastrulation	0.84581033	1.187056669
GO:0006869	lipid transport	0.84048073	1.187068464
ENSG00000198910	L1CAM subnetwork	0.84567723	1.187083092
MP:0009115	abnormal fat cell morphology	0.84668279	1.187116033
ENSG00000102391	ENSG00000102391 subnetwork	0.84044933	1.187120551
ENSG00000147044	CASK subnetwork	0.84139759	1.187131926

ENSG00000109390	NDUFC1 subnetwork	0.8463614	1.187139967
GO:0048029	monosaccharide binding	0.845151	1.187141893
GO:0047555	3',5'-cyclic-GMP phosphodiesterase activity	0.84040437	1.1871484
MP:0006027	impaired lung alveolus development	0.84603609	1.187149465
MP:0002886	abnormal glutamate-mediated receptor currents	0.84663627	1.187158128
REACTOME_TRANSPORT_OF_M	REACTOME_TRANSPORT_OF_MATURE_MRNAS_DERIVED_I	0.62665173	1.18716303
GO:0060716	labyrinthine layer blood vessel development	0.84135277	1.187169427
MP:0000832	abnormal thalamus morphology	0.84620979	1.187176029
ENSG00000211893	ENSG00000211893 subnetwork	0.84630831	1.187206166
ENSG00000053918	KCNQ1 subnetwork	0.84660917	1.187214678
ENSG00000171724	VAT1L subnetwork	0.62688125	1.187219299
ENSG00000160285	LSS subnetwork	0.84133103	1.187240845
MP:0005029	abnormal amnion morphology	0.84616291	1.187247061
ENSG00000118137	APOA1 subnetwork	0.84038908	1.187249006
MP:0011097	complete embryonic lethality before turning of embryo	0.84076204	1.18726973
GO:0015300	solute:solute antiporter activity	0.84654378	1.187271239
GO:0043486	histone exchange	0.62677408	1.187280195
ENSG00000103549	RNF40 subnetwork	0.62685114	1.187333162
GO:0032069	regulation of nuclease activity	0.84133096	1.187355876
ENSG00000138081	FBXO11 subnetwork	0.84124123	1.187359496
ENSG00000215756	ENSG00000215756 subnetwork	0.84038908	1.187364183
MP:0000522	kidney cortex cysts	0.84110786	1.187384899
ENSG00000107779	BMPR1A subnetwork	0.62971229	1.18740736
ENSG00000178184	PAR6G subnetwork	0.63288444	1.187407831
ENSG00000206340	C4A subnetwork	0.63053844	1.18741705
GO:0022904	respiratory electron transport chain	0.84105955	1.187422451
ENSG00000138771	SHROOM3 subnetwork	0.62966003	1.187444089
MP:0000433	microcephaly	0.62981047	1.187447298
GO:0008299	isoprenoid biosynthetic process	0.83975848	1.187456311
ENSG00000170445	HARS subnetwork	0.84036796	1.187459979
GO:0009127	purine nucleoside monophosphate biosynthetic process	0.84123572	1.187464871
REACTOME_REDUCTION_OF_C	REACTOME_REDUCTION_OF_CYTOSOLIC_CA_LEVELS	0.6274397	1.18748397
MP:0003935	abnormal craniofacial development	0.6272	1.187491982
ENSG00000065618	COL17A1 subnetwork	0.62960813	1.187512781
ENSG00000112936	C7 subnetwork	0.63286705	1.187520661
ENSG00000163207	IVL subnetwork	0.84105514	1.187532719
REACTOME_ADVANCED_GLYC	REACTOME_ADVANCED_GLYCOSYLATION_ENDPRODUCT_F	0.84035297	1.18754609
GO:0006637	acyl-CoA metabolic process	0.63052786	1.187549458
ENSG00000160194	NDUFV3 subnetwork	0.83975063	1.18755219
GO:0016859	cis-trans isomerase activity	0.62731664	1.187557722
ENSG00000127831	VIL1 subnetwork	0.63279878	1.187563581
GO:0009168	purine ribonucleoside monophosphate biosynthetic proces	0.84123572	1.187579957
GO:0007019	microtubule depolymerization	0.63035691	1.187584578
REACTOME_LAGGING_STRAND	REACTOME_LAGGING_STRAND_SYNTHESIS	0.62719079	1.187605851
ENSG00000105298	C19orf29 subnetwork	0.62742231	1.187610619
GO:0070566	adenylyltransferase activity	0.83969767	1.187618955
GO:0015804	neutral amino acid transport	0.84032417	1.187637069
MP:0008108	abnormal small intestinal villus morphology	0.62960573	1.187664579
ENSG00000139626	ITGB7 subnetwork	0.83964958	1.187680878
MP:0005399	increased susceptibility to fungal infection	0.63033766	1.187697906
GO:0035383	thioester metabolic process	0.63052786	1.187701047
GO:0043921	modulation by host of viral transcription	0.63278897	1.187714613
GO:0006694	steroid biosynthetic process	0.6315889	1.187727794

MP:0004989	decreased osteoblast cell number	0.8402959	1.187737772
ENSG00000106263	EIF3B subnetwork	0.63152559	1.187751721
GO:0033630	positive regulation of cell adhesion mediated by integrin	0.63028349	1.187753799
MP:0000933	abnormal rhombomere morphology	0.63000518	1.18776188
GO:0060425	lung morphogenesis	0.63082839	1.187775935
GO:0045271	respiratory chain complex I	0.83963903	1.187781663
GO:0045684	positive regulation of epidermis development	0.63009556	1.187782603
GO:0042770	signal transduction in response to DNA damage	0.62959001	1.187784454
REACTOME_CELL_CYCLE	REACTOME_CELL_CYCLE	0.62765758	1.187786896
GO:0005852	eukaryotic translation initiation factor 3 complex	0.63320789	1.187847973
GO:0051635	bacterial cell surface binding	0.84028764	1.1878482
GO:0048002	antigen processing and presentation of peptide antigen	0.63024876	1.187860792
GO:0017153	sodium:dicarboxylate symporter activity	0.8401532	1.187865256
GO:0052472	modulation by host of symbiont transcription	0.63278897	1.187865683
GO:0051354	negative regulation of oxidoreductase activity	0.62957663	1.187891574
GO:0001614	purinergic nucleotide receptor activity	0.63150667	1.18789675
GO:0030964	NADH dehydrogenase complex	0.83963903	1.187897037
ENSG00000114982	KANSL3 subnetwork	0.63121012	1.187909705
MP:0004763	absent brainstem auditory evoked potential	0.62870888	1.187912932
ENSG00000130811	EIF3G subnetwork	0.84026352	1.187919821
GO:0006997	nucleus organization	0.63109027	1.187957648
REACTOME_CHOLESTEROL_BI	REACTOME_CHOLESTEROL_BIOSYNTHESIS	0.63136085	1.187962255
ENSG00000096467	ENSG00000096467 subnetwork	0.62953994	1.18797954
ENSG00000121741	ZMYM2 subnetwork	0.62865425	1.187994622
ENSG00000137474	MYO7A subnetwork	0.63117555	1.187997449
MP:0001899	absent long term depression	0.63277845	1.188004071
GO:0005343	organic acid:sodium symporter activity	0.83955837	1.188006412
GO:0005747	mitochondrial respiratory chain complex I	0.83963903	1.188012434
ENSG00000130147	SH3BP4 subnetwork	0.63102807	1.188019903
ENSG00000164270	HTR4 subnetwork	0.62796273	1.188027176
GO:0048569	post-embryonic organ development	0.62803824	1.188035119
GO:0016502	nucleotide receptor activity	0.63150667	1.18804819
ENSG00000149743	TRPT1 subnetwork	0.62811533	1.188075099
ENSG00000100796	SMEK1 subnetwork	0.63405344	1.18807619
MP:0000284	double outlet heart right ventricle	0.63397193	1.188093726
ENSG00000070814	TCOF1 subnetwork	0.63273442	1.188097964
MP:0004632	abnormal cochlear OHC efferent innervation pattern	0.63146542	1.188104042
ENSG00000135940	COX5B subnetwork	0.62861378	1.18810835
ENSG00000125538	IL1B subnetwork	0.62790483	1.188115385
ENSG00000184408	KCND2 subnetwork	0.63388027	1.188117617
ENSG00000120907	ADRA1A subnetwork	0.83955771	1.188121842
ENSG00000204427	ABHD16A subnetwork	0.62953994	1.188131475
GO:0042058	regulation of epidermal growth factor receptor signaling pa	0.63345183	1.18814184
MP:0005202	lethargy	0.63378803	1.188154217
ENSG00000106804	C5 subnetwork	0.63364301	1.18815756
ENSG00000197597	ENSG00000197597 subnetwork	0.63372806	1.188159065
ENSG00000124702	KLHDC3 subnetwork	0.62857691	1.188170872
ENSG00000130702	LAMA5 subnetwork	0.63430767	1.188180779
MP:0008720	impaired neutrophil chemotaxis	0.83951191	1.188188709
GO:0008144	drug binding	0.62850063	1.188201384
ENSG00000120868	APAF1 subnetwork	0.6327205	1.188223693
GO:0048511	rhythmic process	0.63442522	1.188239401
ENSG00000126803	HSPA2 subnetwork	0.63361762	1.188245012

GO:0050821	protein stabilization	0.63268598	1.188254009
MP:0004214	abnormal long bone diaphysis morphology	0.63426265	1.188261808
ENSG00000206403	ABHD16A subnetwork	0.62953994	1.188283448
MP:0004556	enlarged allantois	0.83950264	1.188289602
GO:2000117	negative regulation of cysteine-type endopeptidase activity	0.62844752	1.188308776
GO:0022804	active transmembrane transporter activity	0.634546	1.188336083
REACTOME_REMOVAL_OF_TH	REACTOME_REMOVAL_OF_THE_FLAP_INTERMEDIATE	0.63266161	1.188341606
GO:0004835	tubulin-tyrosine ligase activity	0.62908552	1.188351254
ENSG00000106348	IMPDH1 subnetwork	0.63251117	1.188383195
GO:0009792	embryo development ending in birth or egg hatching	0.63467008	1.188388325
ENSG00000132424	PNISR subnetwork	0.62951634	1.188390687
GO:0060441	epithelial tube branching involved in lung morphogenesis	0.83947518	1.188395374
ENSG00000197785	ATAD3A subnetwork	0.62842845	1.188429011
GO:0033178	proton-transporting two-sector ATPase complex, catalytic c	0.63246713	1.188439012
GO:0034728	nucleosome organization	0.62902668	1.188445782
REACTOME_MITOTIC_G1:G1S	REACTOME_MITOTIC_G1:G1S_PHASES	0.62919616	1.188448739
ENSG00000148175	STOM subnetwork	0.63479581	1.188453242
KEGG_REGULATION_OF_ACTIN	KEGG_REGULATION_OF_ACTIN_CYTOSKELETON	0.62936494	1.188470889
ENSG00000163634	THOC7 subnetwork	0.63765336	1.188488754
ENSG00000211592	ENSG00000211592 subnetwork	0.62947032	1.188491556
ENSG00000111245	MYL2 subnetwork	0.63265965	1.188492872
ENSG00000141564	RPTOR subnetwork	0.83945326	1.188501166
ENSG00000128951	DUT subnetwork	0.6324328	1.188520311
MP:0008034	enhanced lipolysis	0.62931655	1.188520604
ENSG00000105664	COMP subnetwork	0.6377486	1.188521794
GO:0006487	protein N-linked glycosylation	0.83937393	1.188524351
GO:0009164	nucleoside catabolic process	0.63500317	1.18854497
KEGG_FOLATE_BIOSYNTHESIS	KEGG_FOLATE_BIOSYNTHESIS	0.63508119	1.188559107
GO:0008601	protein phosphatase type 2A regulator activity	0.63517098	1.188566899
GO:0019213	deacetylase activity	0.63492753	1.188581578
ENSG00000182636	NDN subnetwork	0.6378434	1.188592724
MP:0003921	abnormal heart left ventricle morphology	0.8384339	1.188623978
GO:0006873	cellular ion homeostasis	0.63764686	1.188626311
MP:0005547	abnormal Muller cell morphology	0.83936146	1.188630177
ENSG00000114391	RPL24 subnetwork	0.63668849	1.18864988
ENSG00000006740	ARHGAP44 subnetwork	0.63241963	1.188652573
ENSG00000038002	AGA subnetwork	0.6321251	1.188659531
ENSG00000158528	PPP1R9A subnetwork	0.63924063	1.188662717
MP:0009454	impaired contextual conditioning behavior	0.63220275	1.188667346
GO:0045834	positive regulation of lipid metabolic process	0.63845383	1.18867365
MP:0003890	abnormal embryonic-extraembryonic boundary morpholog	0.8384002	1.188690998
GO:0032391	photoreceptor connecting cilium	0.63679582	1.188695597
ENSG00000115414	FN1 subnetwork	0.83894439	1.188707324
GO:0031529	ruffle organization	0.83882714	1.188709991
MP:0000606	decreased hepatocyte number	0.63530547	1.188733198
GO:0016655	oxidoreductase activity, acting on NADH or NADPH, quinon	0.83935644	1.188736023
ENSG00000099860	GADD45B subnetwork	0.63856446	1.18873817
MP:0005179	decreased circulating cholesterol level	0.63763117	1.188738625
GO:0001702	gastrulation with mouth forming second	0.63237337	1.188740288
GO:0009566	fertilization	0.63541191	1.188747306
MP:0005405	axon degeneration	0.63918868	1.188749527
ENSG00000058262	SEC61A1 subnetwork	0.63910861	1.188754413
GO:0048557	embryonic digestive tract morphogenesis	0.63660506	1.188754588

GO:0046906	tetrapyrrole binding	0.63666259	1.188756011
ENSG00000005961	ITGA2B subnetwork	0.63756889	1.188768803
GO:0019953	sexual reproduction	0.83891279	1.188769455
ENSG00000107611	CUBN subnetwork	0.8383656	1.188782363
GO:0005916	fascia adherens	0.8387805	1.188786729
GO:0006891	intra-Golgi vesicle-mediated transport	0.63716269	1.188801062
MP:0005244	hemopericardium	0.63844609	1.188804746
GO:0010970	microtubule-based transport	0.63698553	1.188823529
GO:0006544	glycine metabolic process	0.6374862	1.188843236
GO:0010717	regulation of epithelial to mesenchymal transition	0.83935548	1.188851614
ENSG00000179364	PACS2 subnetwork	0.63819265	1.188855916
ENSG00000155561	NUP205 subnetwork	0.83834551	1.188864012
MP:0002914	abnormal endplate potential	0.6383273	1.188871355
ENSG00000083750	RRAGB subnetwork	0.63659886	1.188879747
ENSG00000145649	GZMA subnetwork	0.83874237	1.188882942
ENSG00000064601	CTSA subnetwork	0.63811761	1.188886082
ENSG00000116833	NR5A2 subnetwork	0.63237144	1.18889172
ENSG00000186230	ZNF749 subnetwork	0.83931136	1.188894292
ENSG00000165476	REEP3 subnetwork	0.63910361	1.188897995
REACTOME_HORMONE_SENSITIVE_LIPASE_HSL_MEDIATED_LIPOLYSIS		0.63558431	1.18891354
ENSG00000137672	TRPC6 subnetwork	0.63742154	1.188924011
REACTOME_SIGNALING_TO_EFFECTORS		0.63949387	1.188928796
ENSG00000171873	ADRA1D subnetwork	0.63715518	1.188938781
ENSG00000179841	AKAP5 subnetwork	0.83830794	1.188945678
ENSG00000198951	NAGA subnetwork	0.63844137	1.188948498
MP:0008874	decreased physiological sensitivity to xenobiotic	0.83925254	1.188956429
GO:0005901	caveola	0.83821596	1.188959206
ENSG00000035862	TIMP2 subnetwork	0.63905088	1.188984868
GO:2000242	negative regulation of reproductive process	0.83816694	1.18899221
GO:0003179	heart valve morphogenesis	0.63651269	1.188997214
ENSG00000127586	CHTF18 subnetwork	0.63657974	1.188998607
ENSG00000007171	NOS2 subnetwork	0.6389987	1.189002396
MP:0001306	small lens	0.63891113	1.189007316
GO:0070207	protein homotrimerization	0.63832622	1.189008838
ENSG00000146007	ZMAT2 subnetwork	0.6363567	1.189019757
KEGG_GLYCOSAMINOGLYCAN_DEGRADATION		0.63810425	1.189029936
REACTOME_PROCESSIVE_SYNTHESIS_ON_THE_LAGGING_STRAND		0.63739462	1.189030096
ENSG00000182400	TRAPPC6B subnetwork	0.64036051	1.18905601
MP:0001925	male infertility	0.63644027	1.189065468
ENSG00000049283	EPN3 subnetwork	0.63887732	1.189069005
ENSG00000114302	PRKAR2A subnetwork	0.63881948	1.189073934
GO:0032526	response to retinoic acid	0.8381621	1.189103126
ENSG00000063322	MED29 subnetwork	0.63623539	1.189111984
MP:0004910	decreased seminal vesicle weight	0.63578783	1.189117759
ENSG00000115484	CCT4 subnetwork	0.63970829	1.189157006
GO:0016634	oxidoreductase activity, acting on the CH-CH group of donors	0.63634315	1.189157695
ENSG00000031823	RANBP3 subnetwork	0.83812547	1.189160499
GO:0006921	cellular component disassembly involved in apoptotic process	0.83669416	1.189186421
MP:0003393	decreased cardiac output	0.64034009	1.189186808
ENSG00000133030	MPRIIP subnetwork	0.83666665	1.189229268
ENSG00000071243	ING3 subnetwork	0.63622559	1.189262638
ENSG00000061337	LZTS1 subnetwork	0.83811957	1.189271452
MP:0004704	short vertebral column	0.83662289	1.189277003

ENSG00000168907	PLA2G4F subnetwork	0.83653319	1.189280835
ENSG00000163931	TKT subnetwork	0.83684704	1.189299649
ENSG00000175189	INHBC subnetwork	0.83698954	1.189306612
ENSG00000165029	ABCA1 subnetwork	0.64032249	1.189317638
ENSG00000047056	WDR37 subnetwork	0.83809171	1.189358075
MP:0002258	abnormal cricoid cartilage morphology	0.8371003	1.189361287
ENSG00000118181	RPS25 subnetwork	0.83696028	1.189378718
GO:0030968	endoplasmic reticulum unfolded protein response	0.64010632	1.189382872
GO:0072234	metanephric nephron tubule development	0.83757276	1.189385965
MP:0009038	decreased inferior colliculus size	0.83652889	1.189392017
REACTOME_SCFSKP2:MEDIATE	REACTOME_SCFSKP2:MEDIATED_DEGRADATION_OF_P27P	0.64158553	1.189392987
ENSG00000105289	TJP3 subnetwork	0.83732559	1.189397485
MP:0001008	abnormal sympathetic ganglion morphology	0.83804093	1.189405748
ENSG00000099800	TIMM13 subnetwork	0.63622257	1.189406994
GO:0015085	calcium ion transmembrane transporter activity	0.64019743	1.189409394
MP:0001636	irregular heartbeat	0.63991288	1.189435555
GO:0006885	regulation of pH	0.83647157	1.189449541
ENSG00000044115	CTNNA1 subnetwork	0.64031588	1.189461093
REACTOME_TIE2_SIGNALING	REACTOME_TIE2_SIGNALING	0.83746201	1.189466758
ENSG00000197530	MIB2 subnetwork	0.64172154	1.189482282
GO:0005275	amine transmembrane transporter activity	0.83730865	1.18948908
GO:0072243	metanephric nephron epithelium development	0.83757276	1.189501901
GO:0046825	regulation of protein export from nucleus	0.64183443	1.189515014
GO:0006895	Golgi to endosome transport	0.83802204	1.189516758
GO:0060039	pericardium development	0.63621135	1.189519706
GO:0010466	negative regulation of peptidase activity	0.64158141	1.18952363
ENSG00000114854	TNNC1 subnetwork	0.83642366	1.189526598
GO:0034620	cellular response to unfolded protein	0.64010632	1.189532687
REACTOME_CDC6_ASSOCIATIC	REACTOME_CDC6_ASSOCIATION_WITH_THE_ORC	0.64140425	1.189533568
MP:0000149	abnormal scapula morphology	0.6413633	1.189601408
REACTOME_PYRIMIDINE_CATA	REACTOME_PYRIMIDINE_CATABOLISM	0.83640131	1.18960367
GO:0008528	G-protein coupled peptide receptor activity	0.83799963	1.189608302
GO:0048873	homeostasis of number of cells within a tissue	0.6419534	1.189610553
ENSG00000129084	PSMA1 subnetwork	0.63617555	1.189626109
MP:0002427	disproportionate dwarf	0.64008035	1.189644747
ENSG00000100241	SBF1 subnetwork	0.64154737	1.18964802
ENSG00000153933	DGKE subnetwork	0.64125134	1.189655389
GO:0007033	vacuole organization	0.64650452	1.189659261
GO:0000976	transcription regulatory region sequence-specific DNA bind	0.64643987	1.189664212
MP:0002280	abnormal intercostal muscle morphology	0.64556676	1.18967629
ENSG00000144218	AFF3 subnetwork	0.64245793	1.189686127
GO:0008272	sulfate transport	0.64119305	1.189691824
ENSG00000165629	ATP5C1 subnetwork	0.64659753	1.189697991
ENSG00000154518	ATP5G3 subnetwork	0.64133755	1.189700704
ENSG00000131495	NDUFA2 subnetwork	0.83798924	1.189704736
ENSG00000175334	BANF1 subnetwork	0.64220941	1.18971364
GO:0048538	thymus development	0.83639781	1.189719809
ENSG00000105438	KDELRL1 subnetwork	0.64111252	1.189721978
ENSG00000135631	RAB11FIP5 subnetwork	0.64553898	1.18973125
GO:0019722	calcium-mediated signaling	0.64604911	1.1897327
ENSG00000100364	KIAA0930 subnetwork	0.64640965	1.189750312
GO:0033261	regulation of S phase	0.6421619	1.189781434
ENSG00000081014	AP4E1 subnetwork	0.83796396	1.189806062

ENSG00000102572	STK24 subnetwork	0.64600581	1.189806371
ENSG00000140326	CDAN1 subnetwork	0.64244279	1.189810397
ENSG00000101160	CTSZ subnetwork	0.83637843	1.18981156
GO:0002827	positive regulation of T-helper 1 type immune response	0.83621501	1.189814453
KEGG_NUCLEOTIDE_EXCISION	KEGG_NUCLEOTIDE_EXCISION_REPAIR	0.64106241	1.18983392
ENSG00000077063	CTTNBP2 subnetwork	0.6458605	1.189835062
MP:0004722	abnormal platelet dense granule number	0.64549485	1.18983623
ENSG00000183625	CCR3 subnetwork	0.6435716	1.189839539
REACTOME_SEMA3A:PLEXIN_F	REACTOME_SEMA3A:PLEXIN_REPULSION_SIGNALING_BY_I	0.64594644	1.189848826
ENSG00000105991	HOXA1 subnetwork	0.836327	1.189854506
REACTOME_ABCA_TRANSPOR	REACTOME_ABCA_TRANSPORTERS_IN_LIPID_HOMEOSTAS	0.64090592	1.189856532
ENSG00000183283	DAZAP2 subnetwork	0.64324018	1.189859526
REACTOME_PROCESSIVE_SYNT	REACTOME_PROCESSIVE_SYNTHESIS_ON_THE_C:STRAND_	0.64674287	1.189861492
GO:0016894	endonuclease activity, active with either ribo- or deoxyribo	0.64496008	1.189864865
ENSG00000162402	USP24 subnetwork	0.64260397	1.189869445
ENSG00000131473	ACLY subnetwork	0.64619103	1.189883852
GO:0006957	complement activation, alternative pathway	0.64639613	1.189886378
MP:0000484	abnormal pulmonary artery morphology	0.64340501	1.189899687
ENSG00000131023	LATS1 subnetwork	0.64101166	1.18990185
ENSG00000135999	EPC2 subnetwork	0.64488871	1.189907396
GO:0015813	L-glutamate transport	0.83595383	1.189909153
GO:0046364	monosaccharide biosynthetic process	0.6450538	1.189909921
GO:0021575	hindbrain morphogenesis	0.64471987	1.189917386
ENSG00000164076	CAMKV subnetwork	0.64522175	1.189918699
ENSG00000104549	SQLE subnetwork	0.83620765	1.189925774
ENSG00000105669	COPE subnetwork	0.64354307	1.189944835
GO:0032869	cellular response to insulin stimulus	0.83582751	1.189946263
ENSG00000119969	HELLS subnetwork	0.64689371	1.189956332
ENSG00000112379	KIAA1244 subnetwork	0.64244081	1.189959814
ENSG00000109519	GRPEL1 subnetwork	0.83611219	1.18996386
ENSG00000135097	MSI1 subnetwork	0.64585235	1.189977506
ENSG00000160613	PCSK7 subnetwork	0.64517302	1.189979985
GO:0010817	regulation of hormone levels	0.83591979	1.189981438
MP:0002947	hemangioma	0.64548734	1.189984996
GO:0010869	regulation of receptor biosynthetic process	0.64337232	1.189986205
GO:0070873	regulation of glycogen metabolic process	0.64321202	1.189989965
MP:0003178	left pulmonary isomerism	0.64539196	1.190002501
ENSG00000120697	ALG5 subnetwork	0.6453418	1.190013757
ENSG00000101558	VAPA subnetwork	0.8357083	1.190022476
ENSG00000147383	NSDHL subnetwork	0.64486121	1.190025031
GO:0060337	type I interferon-mediated signaling pathway	0.83564489	1.190026388
ENSG00000070010	UFD1L subnetwork	0.64469549	1.190028793
MP:0003659	abnormal lymph circulation	0.64376876	1.190028829
MP:0000248	macrocytosis	0.64638284	1.190034965
ENSG00000183648	NDUFB1 subnetwork	0.83581396	1.190038108
ENSG00000124802	EEF1E1 subnetwork	0.64407055	1.190045107
MP:0003409	decreased width of hypertrophic chondrocyte zone	0.64435707	1.190061373
KEGG_LINOLEIC_ACID_METAB	KEGG_LINOLEIC_ACID_METABOLISM	0.83555372	1.190092864
MP:0001078	abnormal phrenic nerve morphology	0.64465411	1.190096407
ENSG00000130312	MRPL34 subnetwork	0.64420766	1.190108995
MP:0001672	abnormal embryogenesis/ development	0.64428531	1.190116498
ENSG00000212868	ENSG00000212868 subnetwork	0.83550554	1.190126112
REACTOME_NEPNS2_INTERAC	REACTOME_NEPNS2_INTERACTS_WITH_THE_CELLULAR_E	0.64402877	1.190137845

GO:0032881	regulation of polysaccharide metabolic process	0.64321202	1.190139255
GO:0071357	cellular response to type I interferon	0.83564489	1.190142704
GO:0005874	microtubule	0.64707041	1.190150948
GO:2000602	regulation of interphase of mitotic cell cycle	0.64318242	1.190181932
ENSG00000131143	COX4I1 subnetwork	0.64462382	1.19018282
ENSG00000177733	HNRNPA0 subnetwork	0.64736279	1.19022322
MP:0004734	small thoracic cavity	0.83539908	1.19023174
ENSG00000198727	MT-CYB subnetwork	0.83550554	1.190242472
GO:0003416	endochondral bone growth	0.64401348	1.190268204
ENSG00000050405	LIMA1 subnetwork	0.64316383	1.190287364
GO:0060412	ventricular septum morphogenesis	0.64747677	1.190299252
ENSG00000187079	TEAD1 subnetwork	0.64732366	1.190328012
ENSG00000039319	ZFYVE16 subnetwork	0.64462242	1.190331872
GO:0001707	mesoderm formation	0.83538815	1.190333464
KEGG_BIOSYNTHESIS_OF_UNSATURATED_FATTY_ACIDS	KEGG_BIOSYNTHESIS_OF_UNSATURATED_FATTY_ACIDS	0.83531946	1.190356968
MP:0000313	abnormal cell death	0.64313728	1.190405371
GO:0006699	bile acid biosynthetic process	0.83528052	1.19040982
ENSG00000110713	NUP98 subnetwork	0.64730118	1.19043283
ENSG00000206211	ENSG00000206211 subnetwork	0.64857746	1.190506723
GO:0042475	odontogenesis of dentin-containing tooth	0.83526952	1.190516482
ENSG00000151239	TWF1 subnetwork	0.6478063	1.19051982
ENSG00000169220	RGS14 subnetwork	0.64312954	1.190529685
GO:0032637	interleukin-8 production	0.64824113	1.190533134
GO:0009267	cellular response to starvation	0.83448636	1.190547288
MP:0002631	abnormal epididymis morphology	0.83514078	1.19054887
MP:0005298	abnormal clavicle morphology	0.8352256	1.190549795
ENSG00000167881	SRP68 subnetwork	0.83405934	1.190557351
GO:0010830	regulation of myotube differentiation	0.83505241	1.190562622
GO:0016592	mediator complex	0.64820541	1.1905631
ENSG00000087274	ADD1 subnetwork	0.83484243	1.190565668
ENSG00000078269	SYNJ2 subnetwork	0.8344123	1.190565945
ENSG00000132694	ARHGEF11 subnetwork	0.83500474	1.190586163
ENSG00000213672	NCKIPSD subnetwork	0.83476215	1.190594108
MP:0004179	transmission ratio distortion	0.83388937	1.190599589
MP:0008943	increased sensitivity to induced cell death	0.64775769	1.190599676
GO:0046320	regulation of fatty acid oxidation	0.8342579	1.190603271
GO:0060123	regulation of growth hormone secretion	0.83470179	1.190612764
GO:0016796	exonuclease activity, active with either ribo- or deoxyribonucleic acid	0.83436188	1.190623776
GO:0045453	bone resorption	0.64815841	1.190624221
GO:0015849	organic acid transport	0.83422205	1.190641528
ENSG00000140022	STON2 subnetwork	0.83402348	1.190654389
ENSG00000206283	PFDN6 subnetwork	0.64857746	1.190654962
GO:0006013	mannose metabolic process	0.83368	1.190660525
ENSG00000151746	BICD1 subnetwork	0.83387294	1.19069175
ENSG00000100401	RANGAP1 subnetwork	0.64843657	1.190696226
ENSG00000174996	KLC2 subnetwork	0.83467901	1.190699951
ENSG00000172409	CLP1 subnetwork	0.64812286	1.190722741
REACTOME_NOREPINEPHRINE_NEUROTRANSMITTER_RELEASE	REACTOME_NOREPINEPHRINE_NEUROTRANSMITTER_RELEASE	0.83363229	1.190728217
ENSG00000144736	SHQ1 subnetwork	0.83386431	1.190798628
ENSG00000204220	PFDN6 subnetwork	0.64857746	1.190803238
GO:0001556	oocyte maturation	0.8336289	1.190830229
MP:0005076	abnormal cell differentiation	0.64812269	1.190864905
GO:0048608	reproductive structure development	0.64891914	1.190887589

MP:0011448	decreased dopaminergic neuron number	0.83359688	1.19089305
ENSG00000071127	WDR1 subnetwork	0.83321941	1.190957238
ENSG00000212872	ENSG00000212872 subnetwork	0.83313618	1.19096616
GO:0001824	blastocyst development	0.83358089	1.190990196
ENSG00000137177	KIF13A subnetwork	0.64809667	1.19099464
GO:0051028	mRNA transport	0.83333162	1.191036579
ENSG00000198888	MT-ND1 subnetwork	0.83344857	1.19105707
GO:0043392	negative regulation of DNA binding	0.83354793	1.191082459
ENSG00000212871	ENSG00000212871 subnetwork	0.83313618	1.19108299
MP:0003886	abnormal embryonic epiblast morphology	0.64913817	1.191106547
ENSG00000054356	PTPRN subnetwork	0.64919211	1.1911201
ENSG00000198840	MT-ND3 subnetwork	0.83313618	1.191199843
ENSG00000198868	ENSG00000198868 subnetwork	0.83313618	1.191316719
GO:0001653	peptide receptor activity	0.83305497	1.191345305
MP:0001559	hyperglycemia	0.83304894	1.191447498
GO:0035050	embryonic heart tube development	0.8328889	1.191475265
ENSG00000196501	ENSG00000196501 subnetwork	0.64944708	1.191506969
GO:0001190	RNA polymerase II transcription factor binding transcrip	0.83284578	1.191518602
ENSG00000113240	CLK4 subnetwork	0.8330429	1.191559525
GO:0001105	RNA polymerase II transcription coactivator activity	0.83284578	1.191635578
REACTOME_BASIGIN_INTERAC	REACTOME_BASIGIN_INTERACTIONS	0.8327953	1.191698576
GO:0031528	microvillus membrane	0.64990528	1.191753731
MP:0009767	decreased sensitivity to xenobiotic induced morbidity/mort	0.83166032	1.191784661
MP:0000539	distended urinary bladder	0.83247235	1.191787819
ENSG00000101057	MYBL2 subnetwork	0.64974718	1.191789002
MP:0004259	small placenta	0.83278562	1.191795954
GO:0000076	DNA replication checkpoint	0.83272338	1.191804969
GO:0043009	chordate embryonic development	0.64986478	1.191821122
ENSG00000170421	KRT8 subnetwork	0.83153439	1.191823188
ENSG00000111581	NUP107 subnetwork	0.83266884	1.191833628
MP:0001382	abnormal nursing	0.83231747	1.191850069
ENSG00000161270	NPHS1 subnetwork	0.83224095	1.191864007
MP:0005176	eyelids fail to open	0.83244353	1.191885254
ENSG00000131381	ZFYVE20 subnetwork	0.83198685	1.191905043
ENSG00000126218	F10 subnetwork	0.64973567	1.191906184
ENSG00000094796	KRT31 subnetwork	0.83261862	1.191906492
MP:0000841	abnormal hindbrain morphology	0.83152598	1.191910897
KEGG_AMINOACYL_TRNA_BIO	KEGG_AMINOACYL_TRNA_BIOSYNTHESIS	0.83207118	1.191930411
ENSG00000152556	PFKM subnetwork	0.83223074	1.191966392
ENSG00000151491	EPS8 subnetwork	0.83196943	1.192007471
GO:0051646	mitochondrion localization	0.83143198	1.192017509
GO:0031018	endocrine pancreas development	0.83151662	1.192018294
REACTOME_INFLUENZA_INFEC	REACTOME_INFLUENZA_INFECTION	0.83191777	1.192065677
MP:0002864	abnormal ocular fundus morphology	0.83221898	1.192068796
ENSG00000128656	CHN1 subnetwork	0.83139527	1.192105263
ENSG00000109929	SC5DL subnetwork	0.65068567	1.19210886
GO:0044106	cellular amine metabolic process	0.6506187	1.192145165
MP:0010402	ventricular septal defect	0.65019785	1.192190026
GO:0046457	prostanoid biosynthetic process	0.83137568	1.192207792
ENSG00000139549	DHH subnetwork	0.65048617	1.19223645
ENSG00000134444	KIAA1468 subnetwork	0.65057386	1.192262275
ENSG00000140481	CCDC33 subnetwork	0.65043743	1.192279
ENSG00000177963	RIC8A subnetwork	0.65139266	1.192290503

GO:0001516	prostaglandin biosynthetic process	0.83137568	1.192325101
REACTOME_GOLGI_ASSOCIATED_VESICLE_BIOGENESIS	REACTOME_GOLGI_ASSOCIATED_VESICLE_BIOGENESIS	0.65035819	1.192346431
MP:0003227	abnormal vascular branching morphogenesis	0.65135196	1.192357835
ENSG00000131187	F12 subnetwork	0.83134557	1.19240307
ENSG00000167325	RRM1 subnetwork	0.65164941	1.192404121
MP:0001916	intracerebral hemorrhage	0.65092247	1.192432903
ENSG00000124782	RREB1 subnetwork	0.65132531	1.192462436
MP:0001625	cardiac hypertrophy	0.65098713	1.192464902
GO:0002579	positive regulation of antigen processing and presentation	0.65106455	1.192465839
GO:0005095	GTPase inhibitor activity	0.65177987	1.192467113
MP:0000967	abnormal sensory neuron projections	0.83129684	1.192471213
ENSG00000108515	ENO3 subnetwork	0.65158896	1.19247145
MP:0003085	abnormal egg cylinder morphology	0.65116273	1.192510247
GO:0019829	cation-transporting ATPase activity	0.83066252	1.192515265
ENSG00000136521	NDUFB5 subnetwork	0.83049562	1.192518716
ENSG00000128609	NDUFA5 subnetwork	0.83041296	1.19252783
ENSG00000173786	CNP subnetwork	0.83118655	1.19257801
ENSG00000205531	NAP1L4 subnetwork	0.83126983	1.19257874
ENSG00000120616	EPC1 subnetwork	0.83064801	1.192603171
GO:0070330	aromatase activity	0.65130276	1.192604322
ENSG00000168653	NDUFS5 subnetwork	0.83039764	1.192615764
GO:0031143	pseudopodium	0.83079954	1.192619399
MP:0009283	decreased gonadal fat pad weight	0.83111924	1.192621579
ENSG00000185721	DRG1 subnetwork	0.6520112	1.192666584
ENSG00000086475	SEPHS1 subnetwork	0.65207621	1.192667494
GO:0043255	regulation of carbohydrate biosynthetic process	0.83106946	1.192694693
ENSG00000213920	MDP1 subnetwork	0.8303762	1.192713568
ENSG00000140285	FGF7 subnetwork	0.83022267	1.192761407
GO:0003337	mesenchymal to epithelial transition involved in metanephros	0.83102007	1.192762899
GO:0042493	response to drug	0.65319135	1.192791677
ENSG00000164252	AGGF1 subnetwork	0.83036501	1.192816318
GO:0022600	digestive system process	0.65311579	1.192834138
ENSG00000091536	MYO15A subnetwork	0.8298354	1.192846579
ENSG00000198042	MAK16 subnetwork	0.83021263	1.192859255
ENSG00000007372	PAX6 subnetwork	0.83012798	1.19286348
GO:0015926	glucosidase activity	0.65306069	1.192882805
GO:0009898	internal side of plasma membrane	0.65613651	1.192890615
MP:0002100	abnormal tooth morphology	0.82981452	1.19291983
MP:0001152	Leydig cell hyperplasia	0.65343215	1.192935859
GO:0031647	regulation of protein stability	0.65601846	1.192938202
MP:0002276	abnormal lung interstitium morphology	0.65609528	1.192939073
MP:0008277	abnormal sternum ossification	0.653645	1.192943798
ENSG00000143556	S100A7 subnetwork	0.65237526	1.192954602
REACTOME_AUTODEGRADATION_OF_CDH1_BY_CDH1APC	REACTOME_AUTODEGRADATION_OF_CDH1_BY_CDH1APC	0.65289965	1.192961586
REACTOME_CYCLIN_ACDK2:ASSOCIATED_EVENTS_AT_S_PHASE	REACTOME_CYCLIN_ACDK2:ASSOCIATED_EVENTS_AT_S_PHASE	0.65358277	1.192973876
GO:0034340	response to type I interferon	0.83011359	1.192976144
GO:0002474	antigen processing and presentation of peptide antigen via MHC class II	0.65304913	1.193024408
ENSG00000175575	PAAF1 subnetwork	0.65257221	1.193030754
GO:0070972	protein localization in endoplasmic reticulum	0.82981327	1.193037475
ENSG00000169992	NLGN2 subnetwork	0.83005388	1.193039535
GO:0044264	cellular polysaccharide metabolic process	0.65545862	1.19304321
ENSG00000145041	VPRBP subnetwork	0.65342505	1.193052632
MP:0001236	abnormal epidermis stratum spinosum morphology	0.65234402	1.193052971

ENSG00000105185	PDCD5 subnetwork	0.65249798	1.193054694
GO:0001104	RNA polymerase II transcription cofactor activity	0.65270372	1.193057277
GO:0015629	actin cytoskeleton	0.65599511	1.193060696
ENSG00000166407	LMO1 subnetwork	0.82501947	1.193104303
MP:0001177	atelectasis	0.65289895	1.193109431
ENSG00000172594	SMPDL3A subnetwork	0.82979276	1.19311076
ENSG00000100614	PPM1A subnetwork	0.65543046	1.193134955
ENSG00000164327	RICTOR subnetwork	0.65285756	1.193158156
GO:0043073	germ cell nucleus	0.82438129	1.193168287
ENSG00000135903	PAX3 subnetwork	0.65642288	1.193175092
ENSG00000171219	CDC42BPG subnetwork	0.6558941	1.193182379
ENSG00000088367	EPB41L1 subnetwork	0.65598529	1.193195558
GO:0010039	response to iron ion	0.65269809	1.193199008
GO:0006353	transcription termination, DNA-dependent	0.82976693	1.193203788
ENSG00000163162	RNF149 subnetwork	0.65280168	1.193206892
GO:0042533	tumor necrosis factor biosynthetic process	0.82434575	1.193212266
ENSG00000135336	ORC3 subnetwork	0.82500266	1.193212692
MP:0005332	abnormal amino acid level	0.65562284	1.193223059
ENSG00000113558	SKP1 subnetwork	0.82951454	1.193226443
MP:0001438	aphagia	0.82971569	1.193232712
GO:0072207	metanephric epithelium development	0.82935162	1.193249778
MP:0006030	abnormal otic vesicle development	0.8233014	1.19325385
MP:0003620	oliguria	0.82382887	1.193257869
GO:0051931	regulation of sensory perception	0.82927063	1.193268851
MP:0002786	abnormal Leydig cell morphology	0.65541803	1.193269943
ENSG00000166862	CACNG2 subnetwork	0.82484369	1.193270852
MP:0004247	small pancreas	0.82356223	1.193280691
REACTOME_OPIOID_SIGNALING	REACTOME_OPIOID_SIGNALING	0.65533527	1.193281462
MP:0001633	poor circulation	0.82495117	1.193291353
MP:0002727	decreased circulating insulin level	0.82378601	1.193301887
MP:0006325	impaired hearing	0.65527749	1.193305336
GO:0046942	carboxylic acid transport	0.82948673	1.193309651
GO:0031576	G2/M transition checkpoint	0.65587705	1.193311119
ENSG00000119729	RHOQ subnetwork	0.82341853	1.193314127
ENSG00000135862	LAMC1 subnetwork	0.82350646	1.193314791
GO:0042534	regulation of tumor necrosis factor biosynthetic process	0.82434575	1.193330687
ENSG00000160801	PTH1R subnetwork	0.82968814	1.193335635
GO:0035904	aorta development	0.82908505	1.193335966
ENSG00000212876	ENSG00000212876 subnetwork	0.82407163	1.193353519
ENSG00000080345	RIF1 subnetwork	0.65661385	1.193354703
GO:0016705	oxidoreductase activity, acting on paired donors, with incor	0.65582861	1.193359664
ENSG00000160868	CYP3A4 subnetwork	0.82329041	1.193367448
ENSG00000113810	SMC4 subnetwork	0.82321493	1.193371758
ENSG00000188846	RPL14 subnetwork	0.6540442	1.193372525
MP:0003666	impaired sperm capacitation	0.82302113	1.19337541
MP:0001951	abnormal breathing pattern	0.82483625	1.193384249
GO:0042771	DNA damage response, signal transduction by p53 class me	0.82919295	1.193385982
GO:0051930	regulation of sensory perception of pain	0.82927063	1.193386635
GO:0031397	negative regulation of protein ubiquitination	0.82420441	1.193403812
GO:0046379	extracellular polysaccharide metabolic process	0.82478892	1.193408392
GO:0032874	positive regulation of stress-activated MAPK cascade	0.65759276	1.193419109
MP:0001293	anophthalmia	0.82297351	1.193419483
MP:0001923	reduced female fertility	0.82378518	1.193420399

MP:0001244	thin dermal layer	0.82463636	1.193421966
ENSG00000101144	BMP7 subnetwork	0.65424673	1.193423658
ENSG00000104142	VPS18 subnetwork	0.65525278	1.193428042
ENSG00000113407	TARS subnetwork	0.82433024	1.193444169
GO:0035909	aorta morphogenesis	0.82908505	1.193453791
ENSG00000161638	ITGA5 subnetwork	0.65771381	1.193469162
GO:0021587	cerebellum morphogenesis	0.65401104	1.193470727
ENSG00000198763	MT-ND2 subnetwork	0.82407163	1.193472002
MP:0003089	decreased skin tensile strength	0.82291335	1.193473506
ENSG00000149782	PLCB3 subnetwork	0.82540375	1.193476752
MP:0000091	short premaxilla	0.82283843	1.1934828
REACTOME_METABOLISM_OF_REACTOME_METABOLISM_OF_NUCLEOTIDES		0.82215044	1.193483235
ENSG00000127603	MACF1 subnetwork	0.82320981	1.193485391
ENSG00000143393	PI4KB subnetwork	0.82556849	1.193507137
GO:0031575	mitotic cell cycle G1/S transition checkpoint	0.65523148	1.193526069
GO:0045226	extracellular polysaccharide biosynthetic process	0.82478892	1.193526786
MP:0009862	abnormal aorta elastic tissue morphology	0.82278806	1.193541812
ENSG00000004975	DVL2 subnetwork	0.82905912	1.193542016
ENSG00000104081	BMF subnetwork	0.65423629	1.193546591
ENSG00000104976	SNAPC2 subnetwork	0.65758786	1.193547593
GO:0016620	oxidoreductase activity, acting on the aldehyde or oxo group	0.82212696	1.193552239
ENSG00000157020	SEC13 subnetwork	0.82238496	1.193554163
ENSG00000125998	FAM83C subnetwork	0.82567711	1.19355734
ENSG00000166925	TSC22D4 subnetwork	0.82273214	1.193580947
GO:0007229	integrin-mediated signaling pathway	0.82263345	1.193585281
MP:0006267	abnormal intercalated disc morphology	0.65729274	1.193606012
ENSG00000196712	NF1 subnetwork	0.65520432	1.193630298
GO:0019751	polyol metabolic process	0.65754677	1.193639163
GO:0031123	RNA 3'-end processing	0.82904903	1.19365001
ENSG00000141198	TOM1L1 subnetwork	0.82237423	1.193657979
GO:0044275	cellular carbohydrate catabolic process	0.82212311	1.193666036
ENSG00000165527	ARF6 subnetwork	0.65741021	1.193668391
ENSG00000132849	INADL subnetwork	0.82173218	1.19367284
ENSG00000185359	HGS subnetwork	0.8258908	1.193681863
ENSG00000142864	SERBP1 subnetwork	0.82262181	1.193694052
ENSG00000214114	MYCBP subnetwork	0.65875209	1.193699287
GO:0000151	ubiquitin ligase complex	0.6580193	1.193716923
REACTOME_VPR:MEDIATED_N_REACTOME_VPR:MEDIATED_NUCLEAR_IMPORT_OF_PICS		0.65837235	1.193732316
GO:0031668	cellular response to extracellular stimulus	0.82639303	1.193734522
ENSG00000101997	CCDC22 subnetwork	0.6572751	1.193740759
ENSG00000158417	EIF5B subnetwork	0.6587142	1.193741547
GO:0035265	organ growth	0.65795394	1.193753077
ENSG00000144048	DUSP11 subnetwork	0.82903913	1.193753086
GO:0010720	positive regulation of cell development	0.6575256	1.193755389
ENSG00000117154	IGSF21 subnetwork	0.82654194	1.193764857
ENSG00000143575	HAX1 subnetwork	0.65519575	1.193765447
GO:0045851	pH reduction	0.82211358	1.193769904
ENSG00000124155	PIGT subnetwork	0.82608345	1.193771678
GO:0005542	folic acid binding	0.65692168	1.193774655
MP:0002233	abnormal nose morphology	0.82172176	1.193781739
GO:0008641	small protein activating enzyme activity	0.82205294	1.193789191
KEGG_PANTOTHENATE_AND_COA_BIOSYNTHESIS		0.65814535	1.193797686
MP:0005402	abnormal action potential	0.8289951	1.193806796

GO:0010288	response to lead ion	0.82636855	1.193808203
GO:0000307	cyclin-dependent protein kinase holoenzyme complex	0.82132202	1.193808528
ENSG00000153162	BMP6 subnetwork	0.82198191	1.193823412
ENSG00000169188	APEX2 subnetwork	0.82158287	1.193830296
ENSG00000136717	BIN1 subnetwork	0.82169091	1.193835889
MP:0010412	atrioventricular septal defect	0.82667562	1.193844706
ENSG00000139998	RAB15 subnetwork	0.65517842	1.193851193
ENSG00000215699	ENSG00000215699 subnetwork	0.65868721	1.1938576
REACTOME_PACKAGING_OF_T	REACTOME_PACKAGING_OF_TELOMERE_ENDS	0.82190184	1.193867596
ENSG00000180104	EXOC3 subnetwork	0.82623778	1.193871383
GO:0004497	monooxygenase activity	0.65836072	1.193873031
ENSG00000128322	IGLL1 subnetwork	0.82680715	1.193875025
ENSG00000183691	NOG subnetwork	0.82130055	1.193882634
MP:0010420	muscular ventricular septal defect	0.82633353	1.193886852
REACTOME_PKA:MEDIATED_P	REACTOME_PKA:MEDIATED_PHOSPHORYLATION_OF_CREE	0.65727364	1.193887862
GO:0048019	receptor antagonist activity	0.65991657	1.193892708
ENSG00000125249	RAP2A subnetwork	0.65862483	1.19389374
MP:0003076	increased susceptibility to ischemic brain injury	0.82897568	1.19389509
GO:0032456	endocytic recycling	0.82154529	1.193904382
GO:0090136	epithelial cell-cell adhesion	0.65923533	1.19391128
GO:0045747	positive regulation of Notch signaling pathway	0.65711731	1.19391717
GO:0016049	cell growth	0.65915837	1.193935111
ENSG00000122026	RPL21 subnetwork	0.82049731	1.193936372
GO:0051281	positive regulation of release of sequestered calcium ion in	0.65721598	1.193936406
GO:0006998	nuclear envelope organization	0.65964794	1.193938836
ENSG00000168593	ENSG00000168593 subnetwork	0.81858402	1.193943028
REACTOME_UNBLOCKING_OF	REACTOME_UNBLOCKING_OF_NMDA_RECEPTOR_GUTAM	0.65833413	1.19398302
MP:0004163	abnormal adenohypophysis morphology	0.82894797	1.193983402
GO:0006457	protein folding	0.65517535	1.193986403
ENSG00000151552	QDPR subnetwork	0.65903458	1.193995083
ENSG00000104812	GYS1 subnetwork	0.82059273	1.193996809
GO:0000279	M phase	0.65938015	1.193998034
GO:0016846	carbon-sulfur lyase activity	0.82153498	1.193998406
ENSG00000090104	RGS1 subnetwork	0.82128655	1.194001594
MP:0000885	ectopic Purkinje cell	0.82888174	1.194002569
MP:0002746	abnormal semilunar valve morphology	0.82095062	1.194004187
ENSG00000101150	TPD52L2 subnetwork	0.65858719	1.19400984
ENSG00000075142	SRI subnetwork	0.65463597	1.194012124
ENSG00000166285	ENSG00000166285 subnetwork	0.82048382	1.194020547
REACTOME_RNA_POLYMERAS	REACTOME_RNA_POLYMERASE_III_TRANSCRIPTION_INITIA	0.66006926	1.19402234
GO:0061384	heart trabecula morphogenesis	0.65511973	1.194022747
GO:0002407	dendritic cell chemotaxis	0.65959324	1.194030217
ENSG00000103742	IGDCC4 subnetwork	0.82090067	1.194038481
GO:0030547	receptor inhibitor activity	0.65991657	1.194039288
ENSG00000125954	CHURC1-FNTB subnetwork	0.82115003	1.194045246
ENSG00000089280	FUS subnetwork	0.8212323	1.19404584
REACTOME_AXON_GUIDANCE	REACTOME_AXON_GUIDANCE	0.82884056	1.194046443
GO:0014902	myotube differentiation	0.65977847	1.194050104
MP:0000644	dextrocardia	0.82876724	1.194055737
ENSG00000206440	NFKBIL1 subnetwork	0.81858402	1.194062375
ENSG00000115306	SPTBN1 subnetwork	0.66434132	1.194071002
ENSG00000152520	PAN3 subnetwork	0.65915728	1.194081858
GO:0001654	eye development	0.6644381	1.194090022

ENSG00000175305	CCNE2 subnetwork	0.65987186	1.194118369
ENSG00000032514	ENSG00000032514 subnetwork	0.82856145	1.194133057
GO:0030855	epithelial cell differentiation	0.8211228	1.19413934
ENSG00000204359	CFB subnetwork	0.82048382	1.194139651
GO:0016574	histone ubiquitination	0.82874364	1.194149041
MP:0004938	dilated vasculature	0.65957743	1.194152334
ENSG00000085832	EPS15 subnetwork	0.8208871	1.194152542
ENSG00000128595	CALU subnetwork	0.82822413	1.194155459
REACTOME_XENOBIOTICS	REACTOME_XENOBIOTICS	0.81857217	1.194156753
MP:0002640	reticulocytosis	0.66430879	1.194161786
MP:0008519	thin retinal outer plexiform layer	0.65511913	1.194170376
REACTOME_INFLUENZA_VIRAL	REACTOME_INFLUENZA_VIRAL_RNA_TRANSCRIPTION_AND	0.82034304	1.19417839
ENSG00000107863	ARHGAP21 subnetwork	0.65496951	1.194187485
ENSG00000138039	LHCGR subnetwork	0.82870955	1.194192943
GO:0035924	cellular response to vascular endothelial growth factor stim	0.82817425	1.194204332
GO:0046329	negative regulation of JNK cascade	0.82084765	1.194211786
GO:0002690	positive regulation of leukocyte chemotaxis	0.65505156	1.194219117
ENSG00000133812	SBF2 subnetwork	0.65480876	1.194223157
GO:0017144	drug metabolic process	0.82047021	1.194223863
REACTOME_INFLAMMASOMES	REACTOME_INFLAMMASOMES	0.82855879	1.194241226
GO:0051329	interphase of mitotic cell cycle	0.81854713	1.194246151
ENSG00000140600	SH3GL3 subnetwork	0.65490636	1.194248609
ENSG00000013573	DDX11 subnetwork	0.81849207	1.194265573
GO:0003006	developmental process involved in reproduction	0.82725572	1.194267327
MP:0005449	abnormal food intake	0.66427546	1.194270897
GO:0005212	structural constituent of eye lens	0.82031597	1.1942726
MP:0002551	abnormal blood coagulation	0.82779451	1.194285573
ENSG00000135390	ATP5G2 subnetwork	0.82842562	1.194289528
MP:0001274	curly vibrissae	0.81889868	1.194293424
ENSG00000198785	GRIN3A subnetwork	0.82816552	1.194312562
GO:0050930	induction of positive chemotaxis	0.82853477	1.194319755
ENSG00000197555	SIPA1L1 subnetwork	0.66031999	1.194329897
GO:0030262	apoptotic nuclear change	0.82720271	1.194331122
REACTOME_EGFR_DOWNREGULATION	REACTOME_EGFR_DOWNREGULATION	0.82791673	1.19435045
ENSG00000162613	FUBP1 subnetwork	0.82801251	1.194351009
GO:0005669	transcription factor TFIID complex	0.82028342	1.194351861
ENSG00000141279	NPEPPS subnetwork	0.81847601	1.194355
ENSG00000162302	RPS6KA4 subnetwork	0.82776916	1.194369124
ENSG00000153914	SREK1 subnetwork	0.8276939	1.194373515
ENSG00000138041	SMEK2 subnetwork	0.66405424	1.194378662
GO:0070723	response to cholesterol	0.66424272	1.194380034
ENSG00000129351	ILF3 subnetwork	0.8281508	1.194410921
ENSG00000005810	MYCBP2 subnetwork	0.66485926	1.194420732
GO:0044455	mitochondrial membrane part	0.82026298	1.194441118
MP:0001675	abnormal ectoderm development	0.66494223	1.194445799
ENSG00000168447	SCNN1B subnetwork	0.82765235	1.194452143
ENSG00000174483	BBS1 subnetwork	0.66418755	1.194458684
GO:0006569	tryptophan catabolic process	0.81846413	1.194464446
GO:0021871	forebrain regionalization	0.81931835	1.194464982
ENSG00000163082	SGPP2 subnetwork	0.66162729	1.194468945
GO:0090316	positive regulation of intracellular protein transport	0.66504116	1.194470861
MP:0011100	complete preweaning lethality	0.82010916	1.194479936
GO:0006518	peptide metabolic process	0.81996735	1.194503794

ENSG00000145220	LYAR subnetwork	0.82024152	1.19451043
REACTOME_METABOLISM_OF_REACTOME_METABOLISM_OF_PORPHYRINS		0.81967657	1.194517128
ENSG00000125814	NAPB subnetwork	0.66218445	1.194522644
ENSG00000166228	PCBD1 subnetwork	0.66405289	1.194524478
MP:0011086	partial postnatal lethality	0.66058788	1.194527607
GO:0072659	protein localization in plasma membrane	0.66482408	1.194529821
ENSG00000135486	HNRNPA1 subnetwork	0.66366438	1.194534017
ENSG00000006634	DBF4 subnetwork	0.66159612	1.194535653
GO:0048193	Golgi vesicle transport	0.82752792	1.194540145
GO:0005979	regulation of glycogen biosynthetic process	0.66209274	1.194540335
ENSG00000206412	GNL1 subnetwork	0.66146982	1.194546569
ENSG00000168309	FAM107A subnetwork	0.82763736	1.194550584
GO:0005310	dicarboxylic acid transmembrane transporter activity	0.8195747	1.194550994
GO:0032354	response to follicle-stimulating hormone stimulus	0.66051046	1.194557614
MP:0001074	abnormal vagus nerve morphology	0.82007815	1.194559249
GO:0071417	cellular response to organic nitrogen	0.66386949	1.194559775
MP:0001327	decreased retinal photoreceptor cell number	0.66236825	1.194560695
MP:0000272	abnormal aorta morphology	0.81984392	1.194567605
MP:0001125	abnormal oocyte morphology	0.66375366	1.194571324
MP:0006108	abnormal hindbrain development	0.8199374	1.194578133
GO:0046218	indolalkylamine catabolic process	0.81846413	1.194583917
GO:0032732	positive regulation of interleukin-1 production	0.81931419	1.194584333
ENSG00000108829	LRR59 subnetwork	0.66175792	1.194585987
GO:0045176	apical protein localization	0.6622937	1.194590625
GO:0032755	positive regulation of interleukin-6 production	0.6631953	1.194591787
ENSG00000139132	FGD4 subnetwork	0.81965683	1.194596484
MP:0001388	abnormal stationary movement	0.66155945	1.194602377
ENSG00000139496	NUPL1 subnetwork	0.66076918	1.194608024
GO:0016840	carbon-nitrogen lyase activity	0.81923577	1.194608774
ENSG00000106100	NOD1 subnetwork	0.6639781	1.19460928
REACTOME_CYCLIN_E_ASSOCIATED_EVENTS_DURING_G1S		0.66311855	1.194621684
ENSG00000104325	DECR1 subnetwork	0.81956806	1.19466034
GO:0007586	digestion	0.66364205	1.194661617
GO:0010962	regulation of glucan biosynthetic process	0.66209274	1.194686582
ENSG00000206492	GNL1 subnetwork	0.66146982	1.194692977
GO:0042436	indole-containing compound catabolic process	0.81846413	1.194703411
ENSG00000143546	S100A8 subnetwork	0.81839671	1.194747899
MP:0004016	decreased bone mass	0.6629367	1.194754219
ENSG00000141446	ESCO1 subnetwork	0.6635855	1.194758705
MP:0008528	polycystic kidney	0.66311468	1.194767726
GO:0061134	peptidase regulator activity	0.66275147	1.194782875
GO:0017091	AU-rich element binding	0.66260421	1.194806069
GO:0016052	carbohydrate catabolic process	0.81833683	1.194812406
GO:0032102	negative regulation of response to external stimulus	0.66271099	1.194818938
GO:0072331	signal transduction by p53 class mediator	0.66344368	1.194824636
GO:0032885	regulation of polysaccharide biosynthetic process	0.66209274	1.194832864
ENSG00000204590	GNL1 subnetwork	0.66146982	1.194839421
ENSG00000129682	FGF13 subnetwork	0.66309428	1.194852671
GO:0032856	activation of Ras GTPase activity	0.66292134	1.194869757
ENSG00000119718	EIF2B2 subnetwork	0.66357877	1.194886364
ENSG00000212802	ENSG00000212802 subnetwork	0.8183234	1.19491695
GO:0030295	protein kinase activator activity	0.66142888	1.194930734
ENSG00000170917	NUDT6 subnetwork	0.66136203	1.194948504

REACTOME_GLUCOSE_TRANSF	REACTOME_GLUCOSE_TRANSPORT	0.66208502	1.194948567
ENSG00000116095	PLEKHA3 subnetwork	0.6620385	1.194984691
ENSG00000148848	ADAM12 subnetwork	0.66291355	1.194991438
ENSG00000145592	RPL37 subnetwork	0.66555639	1.195033516
ENSG00000124357	NAGK subnetwork	0.66131124	1.195033722
ENSG00000174766	ENSG00000174766 subnetwork	0.8183234	1.195036526
MP:0009456	impaired cued conditioning behavior	0.66125028	1.195100564
ENSG00000109193	SULT1E1 subnetwork	0.81829014	1.195136109
GO:0072530	purine-containing compound transmembrane transport	0.66554898	1.195154803
GO:0051184	cofactor transporter activity	0.81809585	1.195159676
KEGG_OTHER_GLYCAN_DEGRA	KEGG_OTHER_GLYCAN_DEGRADATION	0.66121821	1.195173556
ENSG00000086589	RBM22 subnetwork	0.81825237	1.195185667
MP:0000192	abnormal mineral level	0.81819643	1.195225225
GO:0061383	trabecula morphogenesis	0.81804037	1.195229275
GO:0035914	skeletal muscle cell differentiation	0.6612002	1.195277233
GO:0008484	sulfuric ester hydrolase activity	0.66554103	1.1953005
MP:0001676	abnormal apical ectodermal ridge morphology	0.81791854	1.195323453
ENSG00000169714	CNBP subnetwork	0.818003	1.195323921
ENSG00000135655	USP15 subnetwork	0.66735595	1.195330739
ENSG00000101977	MCF2 subnetwork	0.81787175	1.195358037
GO:0042559	pteridine-containing compound biosynthetic process	0.66608827	1.195370934
ENSG00000144848	ATG3 subnetwork	0.66659931	1.195404747
GO:0071496	cellular response to external stimulus	0.66689869	1.195412509
ENSG00000183474	GTF2H2C subnetwork	0.81783849	1.195417668
GO:0010878	cholesterol storage	0.66761213	1.195466148
GO:0008373	sialyltransferase activity	0.66734934	1.195476104
ENSG00000140307	GTF2A2 subnetwork	0.66606861	1.195486111
ENSG00000206315	PBX2 subnetwork	0.66784704	1.195504253
MP:0005282	decreased fatty acid level	0.81783362	1.195527397
GO:0032201	telomere maintenance via semi-conservative replication	0.66658704	1.195532019
GO:0015291	secondary active transmembrane transporter activity	0.66794211	1.195541247
ENSG00000100722	ZC3H14 subnetwork	0.66689021	1.19554582
ENSG00000150687	PRSS23 subnetwork	0.66597158	1.195552035
REACTOME_RNA_POLYMERAS	REACTOME_RNA_POLYMERASE_I_PROMOTER_OPENING	0.66758965	1.195556771
MP:0001957	apnea	0.66731956	1.195566772
ENSG00000163453	IGFBP7 subnetwork	0.66681332	1.195593963
GO:0009994	oocyte differentiation	0.66605489	1.195595224
ENSG00000124635	HIST1H2BJ subnetwork	0.66640339	1.195597369
ENSG00000135218	CD36 subnetwork	0.66754208	1.195598784
ENSG00000131037	EPS8L1 subnetwork	0.66840586	1.195604662
ENSG00000147677	EIF3H subnetwork	0.81779838	1.195607093
REACTOME_TRANSPORT_OF_T	REACTOME_TRANSPORT_OF_THE_SLBP_DEPENDANT_MAT	0.66708289	1.195613822
ENSG00000206247	ENSG00000206247 subnetwork	0.66784704	1.195649532
GO:0006986	response to unfolded protein	0.6665684	1.195653233
GO:0030730	sequestering of triglyceride	0.66650086	1.195670969
GO:0008137	NADH dehydrogenase (ubiquinone) activity	0.81776108	1.195681795
ENSG00000164118	CEP44 subnetwork	0.66730474	1.195693955
ENSG00000111344	RASAL1 subnetwork	0.66724714	1.19573601
ENSG00000181789	COPG subnetwork	0.6663959	1.195736906
ENSG00000143870	PDIA6 subnetwork	0.66840105	1.195749848
MP:0002971	abnormal brown adipose tissue morphology	0.6715834	1.195769882
ENSG00000204304	PBX2 subnetwork	0.66784704	1.195794847
ENSG00000196776	CD47 subnetwork	0.66819785	1.19579689

GO:0003954	NADH dehydrogenase activity	0.81776108	1.195801603
ENSG00000144566	RAB5A subnetwork	0.671205	1.195809651
MP:0011405	tubulointerstitial nephritis	0.6685849	1.195823722
ENSG00000141480	ARRB2 subnetwork	0.67498088	1.195838345
ENSG00000182957	SPATA13 subnetwork	0.66868846	1.195860646
GO:0061136	regulation of proteasomal protein catabolic process	0.67157029	1.195884202
ENSG00000138031	ADCY3 subnetwork	0.66838836	1.195888997
ENSG00000120885	CLU subnetwork	0.6749409	1.195897991
ENSG00000173369	C1QB subnetwork	0.67134173	1.195918984
GO:0050136	NADH dehydrogenase (quinone) activity	0.81776108	1.195921435
ENSG00000124762	CDKN1A subnetwork	0.67119943	1.195948234
MP:0000462	abnormal digestive system morphology	0.67153273	1.195950193
GO:0008629	induction of apoptosis by intracellular signals	0.66836664	1.195973521
ENSG00000183048	SLC25A10 subnetwork	0.8177126	1.195981159
GO:0043567	regulation of insulin-like growth factor receptor signaling p	0.67178984	1.196006042
ENSG00000100201	DDX17 subnetwork	0.66927158	1.196032998
MP:0005238	increased brain size	0.67493978	1.196041867
ENSG00000035403	VCL subnetwork	0.67473348	1.196052473
REACTOME_E2F:ENABLED_INH	REACTOME_E2F:ENABLED_INHIBITION_OF_PRE:REPLICATI	0.81768263	1.196075975
MP:0002810	microcytic anemia	0.67480669	1.196077016
ENSG00000106683	LIMK1 subnetwork	0.67152015	1.196082699
MP:0001547	abnormal lipid level	0.67519085	1.196085388
GO:0042558	pteridine-containing compound metabolic process	0.67119693	1.196086851
ENSG00000155868	MED7 subnetwork	0.67488924	1.196101552
ENSG00000065000	AP3D1 subnetwork	0.66922958	1.196105314
ENSG00000170604	IRF2BP1 subnetwork	0.6689868	1.196109965
GO:0015297	antiporter activity	0.66914236	1.196116976
ENSG00000106976	DNM1 subnetwork	0.67469111	1.196124218
MP:0005178	increased circulating cholesterol level	0.66909875	1.196195388
GO:0009636	response to toxin	0.81767862	1.19619587
ENSG00000100292	HMOX1 subnetwork	0.67118657	1.196219453
ENSG00000069345	DNAJA2 subnetwork	0.67561044	1.196231971
GO:0090181	regulation of cholesterol metabolic process	0.6710235	1.196236689
GO:0016684	oxidoreductase activity, acting on peroxide as acceptor	0.81762464	1.196240602
GO:0030275	LRR domain binding	0.67468058	1.196268208
ENSG00000154380	ENAH subnetwork	0.67212308	1.196278845
MP:0010300	increased skin tumor incidence	0.6711294	1.196285541
MP:0004701	decreased circulating insulin-like growth factor I level	0.81749288	1.196289983
GO:0046943	carboxylic acid transmembrane transporter activity	0.67098519	1.196290693
MP:0000754	paresis	0.67544502	1.196308765
GO:0070633	transepithelial transport	0.81467972	1.196322568
GO:0031526	brush border membrane	0.67357231	1.196334258
ENSG00000106290	TAF6 subnetwork	0.67560006	1.196351725
GO:0002673	regulation of acute inflammatory response	0.67339056	1.196357496
GO:0050848	regulation of calcium-mediated signaling	0.81747093	1.196359807
GO:0004601	peroxidase activity	0.81762464	1.196360537
GO:0051345	positive regulation of hydrolase activity	0.67586363	1.196365056
GO:0018904	organic ether metabolic process	0.67210287	1.19637506
GO:0001837	epithelial to mesenchymal transition	0.81478802	1.1963833
REACTOME_LIPOPROTEIN_ME	REACTOME_LIPOPROTEIN_METABOLISM	0.67466975	1.196388153
GO:0031111	negative regulation of microtubule polymerization or depol	0.67420026	1.196391566
GO:0043241	protein complex disassembly	0.67351851	1.196400145
GO:0010876	lipid localization	0.67097898	1.196417332

ENSG00000095637	SORBS1 subnetwork	0.67333461	1.19641737
ENSG00000079805	DNM2 subnetwork	0.67580215	1.1964187
GO:0034774	secretory granule lumen	0.81465986	1.196427853
ENSG00000160746	ANO10 subnetwork	0.67249943	1.19643159
MP:0004703	abnormal vertebral column morphology	0.81700032	1.19643323
GO:0045022	early endosome to late endosome transport	0.6741549	1.19643933
ENSG00000010438	PRSS3 subnetwork	0.67543815	1.196440596
GO:0030546	receptor activator activity	0.67311044	1.196446241
ENSG00000139842	CUL4A subnetwork	0.67079971	1.196446731
ENSG00000100075	SLC25A1 subnetwork	0.67091341	1.196447161
MP:0005478	decreased circulating thyroxine level	0.81458464	1.19644762
GO:0035966	response to topologically incorrect protein	0.67263456	1.19645617
ENSG00000151366	NDUFC2 subnetwork	0.81694476	1.196457957
GO:0032994	protein-lipid complex	0.81450475	1.196462359
GO:0030136	clathrin-coated vesicle	0.67559203	1.196471508
ENSG00000087258	GNAO1 subnetwork	0.81746132	1.196474777
GO:0031105	septin complex	0.66972317	1.196483143
ENSG00000125170	DOK4 subnetwork	0.67449572	1.196483199
MP:0004190	abnormal direction of embryo turning	0.67287527	1.196487204
MP:0008544	impaired olfaction	0.67246126	1.196491546
GO:0002687	positive regulation of leukocyte migration	0.6740865	1.196511208
ENSG00000157087	ATP2B2 subnetwork	0.67329516	1.196513452
REACTOME_REGULATION_OF_REACTOME_REGULATION_OF_INSULIN_SECRETION_BY_AC		0.67300482	1.196523838
MP:0004607	abnormal cervical atlas morphology	0.67307625	1.196524258
MP:0006058	decreased cerebral infarction size	0.8173718	1.196524574
GO:0048871	multicellular organismal homeostasis	0.67459089	1.196525771
GO:0034614	cellular response to reactive oxygen species	0.67466793	1.196526189
MP:0005274	abnormal viscerocranium morphology	0.67013603	1.196533753
ENSG00000171621	SPSB1 subnetwork	0.67320759	1.196537162
ENSG00000067829	IDH3G subnetwork	0.67866482	1.196546565
GO:0005342	organic acid transmembrane transporter activity	0.67750732	1.196552758
GO:0004714	transmembrane receptor protein tyrosine kinase activity	0.677695	1.196553584
ENSG00000129245	FXR2 subnetwork	0.81726935	1.196554318
ENSG00000138193	PLCE1 subnetwork	0.67043312	1.196559661
ENSG00000170348	TMED10 subnetwork	0.67077693	1.196561327
GO:0005319	lipid transporter activity	0.67242273	1.196569634
MP:0001688	abnormal somite development	0.67402511	1.19657105
ENSG00000198695	MT-ND6 subnetwork	0.81694206	1.196578023
GO:0034358	plasma lipoprotein particle	0.81450475	1.196582788
ENSG00000137878	GCOM1 subnetwork	0.81605805	1.196584288
KEGG_GLYCINE_SERINE_AND_KEGG_GLYCINE_SERINE_AND_THREONINE_METABOLISM		0.67790393	1.196584781
GO:0046961	proton-transporting ATPase activity, rotational mechanism	0.6785032	1.196587644
ENSG00000152583	SPARCL1 subnetwork	0.67741396	1.196594316
GO:0044036	cell wall macromolecule metabolic process	0.81598756	1.196599015
ENSG00000131746	TNS4 subnetwork	0.67285581	1.196607509
MP:0002685	abnormal spermatogonia proliferation	0.81723004	1.196609149
MP:0004411	decreased endocochlear potential	0.81617224	1.196609744
ENSG00000127993	RBM48 subnetwork	0.81502374	1.196609999
ENSG00000058668	ATP2B4 subnetwork	0.67732712	1.196611897
ENSG00000215727	ENSG00000215727 subnetwork	0.6738638	1.196612417
GO:0004842	ubiquitin-protein ligase activity	0.67763346	1.196613116
GO:0035967	cellular response to topologically incorrect protein	0.67039974	1.196619821
ENSG00000143858	SYT2 subnetwork	0.67449032	1.196621296

GO:0034593	phosphatidylinositol bisphosphate phosphatase activity	0.67234539	1.196623581
GO:0032156	septin cytoskeleton	0.66972317	1.19662826
MP:0008563	decreased interferon-alpha secretion	0.67864418	1.196641925
ENSG00000131263	RLIM subnetwork	0.67058744	1.196644864
GO:0016236	macroautophagy	0.67074174	1.196645677
GO:0048596	embryonic camera-type eye morphogenesis	0.81561407	1.196647567
ENSG00000122367	LDB3 subnetwork	0.67445283	1.196657029
ENSG00000105372	RPS19 subnetwork	0.67012416	1.196660606
GO:0006283	transcription-coupled nucleotide-excision repair	0.81418747	1.196667002
MP:0005087	decreased acute inflammation	0.67397823	1.196667068
GO:0048048	embryonic eye morphogenesis	0.67788592	1.196668265
MP:0000920	abnormal myelination	0.81513588	1.196685778
KEGG_PYRUVATE_METABOLISM	KEGG_PYRUVATE_METABOLISM	0.81557237	1.196687443
MP:0001798	impaired macrophage phagocytosis	0.81449011	1.196688142
GO:0042439	ethanolamine-containing compound metabolic process	0.81685814	1.196692763
ENSG00000212869	ENSG00000212869 subnetwork	0.81694206	1.196698113
ENSG00000102309	PIN4 subnetwork	0.67036239	1.196704229
ENSG00000055732	MCOLN3 subnetwork	0.66968963	1.196718826
GO:0071554	cell wall organization or biogenesis	0.81598756	1.196719252
GO:0043114	regulation of vascular permeability	0.67848928	1.196724943
GO:0031432	titin binding	0.67732035	1.196737436
MP:0004811	abnormal neuron physiology	0.81575784	1.196738366
MP:0006032	abnormal ureteric bud morphology	0.67030701	1.196746243
ENSG00000067836	ROGDI subnetwork	0.67838398	1.196748503
ENSG00000065518	NDUFB4 subnetwork	0.6738638	1.196756692
GO:0072170	metanephric tubule development	0.8165562	1.196761398
GO:0060047	heart contraction	0.81684644	1.196762698
GO:0046686	response to cadmium ion	0.81667594	1.196767068
ENSG00000155511	GRIA1 subnetwork	0.68367049	1.196767293
MP:0000189	hypoglycemia	0.81417734	1.196767372
GO:0001893	maternal placenta development	0.81647702	1.196776137
GO:0006568	tryptophan metabolic process	0.81547643	1.196782303
ENSG00000079819	EPB41L2 subnetwork	0.81539148	1.196787007
GO:0051654	establishment of mitochondrion localization	0.81588806	1.196788945
GO:0045776	negative regulation of blood pressure	0.67072618	1.196790602
GO:0030252	growth hormone secretion	0.67012162	1.196793551
GO:0045806	negative regulation of endocytosis	0.67833099	1.196796023
ENSG00000172164	SNTB1 subnetwork	0.67726358	1.196797025
ENSG00000188021	UBQLN2 subnetwork	0.68376691	1.196797386
MP:0011101	partial prenatal lethality	0.67787243	1.196799712
MP:0001689	incomplete somite formation	0.81410287	1.196802296
ENSG00000089009	RPL6 subnetwork	0.81557144	1.196802735
MP:0000107	abnormal frontal bone morphology	0.81448677	1.196803584
ENSG00000023228	NDUFS1 subnetwork	0.81393677	1.196806689
ENSG00000173542	MOB1B subnetwork	0.81386753	1.196811404
GO:0008380	RNA splicing	0.81665193	1.196811929
GO:0000377	RNA splicing, via transesterification reactions with bulged a	0.67003895	1.19681741
GO:0004857	enzyme inhibitor activity	0.68363992	1.196832283
MP:0008227	absent anterior commissure	0.81598093	1.196839514
MP:0008642	decreased circulating interleukin-1 beta level	0.81441647	1.19684857
ENSG00000170906	NDUFA3 subnetwork	0.81681282	1.196852726
ENSG00000102189	EEA1 subnetwork	0.81644221	1.196861189
GO:0043410	positive regulation of MAPK cascade	0.81370495	1.196865867

ENSG00000123562	MORF4L2 subnetwork	0.67829442	1.196873503
GO:0015405	P-P-bond-hydrolysis-driven transmembrane transporter act	0.67822652	1.196879118
GO:0030867	rough endoplasmic reticulum membrane	0.81535925	1.196882229
ENSG00000125818	PSMF1 subnetwork	0.67678726	1.196890756
ENSG00000112769	LAMA4 subnetwork	0.81379279	1.196891374
GO:0006695	cholesterol biosynthetic process	0.81384957	1.196891688
ENSG00000204983	PRSS1 subnetwork	0.81408417	1.196902699
GO:0046620	regulation of organ growth	0.67708677	1.196909876
GO:0002244	hemopoietic progenitor cell differentiation	0.67726238	1.196934613
ENSG00000183092	BEGAIN subnetwork	0.67917185	1.196948666
MP:0009866	abnormal aorta wall morphology	0.67674674	1.196950414
GO:0050820	positive regulation of coagulation	0.68362506	1.196950785
MP:0008272	abnormal endochondral bone ossification	0.67720496	1.196952244
GO:0000398	nuclear mRNA splicing, via spliceosome	0.67003895	1.196962532
ENSG00000147123	NDUFB11 subnetwork	0.81369348	1.196971377
KEGG_RNA_DEGRADATION	KEGG_RNA_DEGRADATION	0.68357465	1.197009868
REACTOME_APCCDC20_MED	REACTOME_APCCDC20_MEDIATED_DEGRADATION_OF_S	0.67707131	1.197017523
GO:0015399	primary active transmembrane transporter activity	0.67822652	1.197022526
ENSG00000104835	FBXO17 subnetwork	0.81330547	1.197030651
MP:0000876	Purkinje cell degeneration	0.6767291	1.197040106
REACTOME_GRB2_EVENTS_IN	REACTOME_GRB2_EVENTS_IN_EGFR_SIGNALING	0.67695637	1.197047173
ENSG00000137076	TLN1 subnetwork	0.67667382	1.197057764
ENSG00000134216	CHIA subnetwork	0.81367349	1.197071868
ENSG00000104435	STMN2 subnetwork	0.67915409	1.197073959
ENSG00000150768	DLAT subnetwork	0.67659351	1.197075426
MP:0011290	decreased nephron number	0.67629907	1.19708038
ENSG00000152795	HNRPD subnetwork	0.68351446	1.197080856
ENSG00000085563	ABCB1 subnetwork	0.68345249	1.197104293
GO:0000315	organellar large ribosomal subunit	0.81330422	1.197151356
ENSG00000004864	SLC25A13 subnetwork	0.81366444	1.19718246
GO:0042446	hormone biosynthetic process	0.67658644	1.197195195
ENSG00000198780	FAM169A subnetwork	0.68410822	1.197201759
GO:0005770	late endosome	0.68003152	1.197202964
GO:0072594	establishment of protein localization to organelle	0.68089643	1.197206637
ENSG00000103740	ACSBG1 subnetwork	0.67914853	1.197217235
ENSG00000160973	FOXH1 subnetwork	0.67995859	1.197220562
ENSG00000204308	RNF5 subnetwork	0.6834396	1.197222883
ENSG00000197956	S100A6 subnetwork	0.68296993	1.197233131
GO:0007292	female gamete generation	0.81358204	1.197237625
GO:0005762	mitochondrial large ribosomal subunit	0.81330422	1.197272086
ENSG00000198692	EIF1AY subnetwork	0.67654105	1.197284959
GO:0051279	regulation of release of sequestered calcium ion into cytosol	0.6831265	1.197316754
MP:0003070	increased vascular permeability	0.68555054	1.197325664
MP:0002679	abnormal corpus luteum morphology	0.6798425	1.197339471
GO:0009312	oligosaccharide biosynthetic process	0.68018888	1.197340743
ENSG00000129990	SYT5 subnetwork	0.68089278	1.197343601
ENSG00000196954	CASP4 subnetwork	0.68503554	1.197347496
MP:0000521	abnormal kidney cortex morphology	0.68294888	1.197351821
GO:0072376	protein activation cascade	0.68543769	1.197354686
ENSG00000169020	ATP5I subnetwork	0.67995243	1.197363702
ENSG00000183574	RNF5 subnetwork	0.6834396	1.197365291
ENSG00000112312	GMNN subnetwork	0.68551662	1.197372791
ENSG00000188994	ZNF292 subnetwork	0.81330131	1.197392839

GO:0090307	spindle assembly involved in mitosis	0.68536393	1.197401827
MP:0009264	failure of eyelid fusion	0.68648949	1.197406135
ENSG00000090615	GOLGA3 subnetwork	0.68489958	1.19740622
MP:0001211	wrinkled skin	0.68431787	1.197415944
GO:0005544	calcium-dependent phospholipid binding	0.682169	1.197420162
ENSG00000136011	STAB2 subnetwork	0.67954252	1.197421632
REACTOME_RESPIRATORY_ELE	REACTOME_RESPIRATORY_ELECTRON_TRANSPORT_ATP_S'	0.68274476	1.197440171
GO:0019003	GDP binding	0.68208904	1.19744369
GO:0045263	proton-transporting ATP synthase complex, coupling factor	0.68478134	1.197447162
ENSG00000100167	SEPT3 subnetwork	0.68644234	1.197447287
GO:0033238	regulation of cellular amine metabolic process	0.68267749	1.197451774
GO:0032731	positive regulation of interleukin-1 beta production	0.68638279	1.197458832
GO:0034644	cellular response to UV	0.68629616	1.197470379
ENSG00000196470	SIAH1 subnetwork	0.67978007	1.197470398
MP:0001496	audiogenic seizures	0.67983714	1.197470701
GO:0006041	glucosamine metabolic process	0.68088674	1.197474627
KEGG_AXON_GUIDANCE	KEGG_AXON_GUIDANCE	0.68262557	1.197475289
GO:0030010	establishment of cell polarity	0.68285084	1.19747619
ENSG00000147601	TERF1 subnetwork	0.68579755	1.197480436
ENSG00000099725	ENSG00000099725 subnetwork	0.68590076	1.197480735
GO:0048471	perinuclear region of cytoplasm	0.68293257	1.197482443
ENSG00000120805	ARL1 subnetwork	0.68487057	1.197489018
ENSG00000167283	ATP5L subnetwork	0.68503388	1.197489614
GO:0046131	pyrimidine ribonucleoside metabolic process	0.67963314	1.197499701
GO:0015931	nucleobase-containing compound transport	0.67970976	1.1975
GO:0043555	regulation of translation in response to stress	0.68473028	1.197500297
ENSG00000065665	SEC61A2 subnetwork	0.81328912	1.19750353
ENSG00000206254	ENSG00000206254 subnetwork	0.6834396	1.197507733
ENSG00000170312	CDK1 subnetwork	0.68533661	1.197508306
ENSG00000170248	PDCD6IP subnetwork	0.68113224	1.197523275
GO:0051187	cofactor catabolic process	0.68465379	1.197523753
GO:0045005	maintenance of fidelity involved in DNA-dependent DNA re	0.68448915	1.197535044
ENSG00000119917	IFIT3 subnetwork	0.68178997	1.197537563
GO:0009112	nucleobase metabolic process	0.68038066	1.197538241
ENSG00000105048	TNNT1 subnetwork	0.81324227	1.19754363
ENSG00000135424	ITGA7 subnetwork	0.68207748	1.197544696
ENSG00000143333	RGS16 subnetwork	0.68608916	1.197558374
GO:0005753	mitochondrial proton-transporting ATP synthase complex	0.68195524	1.197561993
GO:0008305	integrin complex	0.68172157	1.197567084
GO:0008033	tRNA processing	0.68577138	1.197569074
GO:0032479	regulation of type I interferon production	0.68162967	1.197578721
ENSG00000078967	UBE2D4 subnetwork	0.68526717	1.19757921
GO:0030670	phagocytic vesicle membrane	0.68668727	1.197584083
GO:0043550	regulation of lipid kinase activity	0.68460759	1.197588787
ENSG00000111816	FRK subnetwork	0.68058318	1.197592593
GO:0016645	oxidoreductase activity, acting on the CH-NH group of don	0.68261347	1.197594092
GO:0045540	regulation of cholesterol biosynthetic process	0.68627477	1.197594502
GO:0050909	sensory perception of taste	0.68203987	1.197604005
GO:0016893	endonuclease activity, active with either ribo- or deoxyribo	0.68341916	1.197608566
GO:0006044	N-acetylglucosamine metabolic process	0.68088674	1.197617626
ENSG00000145242	EPHA5 subnetwork	0.68141115	1.197625582
ENSG00000164344	KLKB1 subnetwork	0.68052764	1.197628152
GO:0040037	negative regulation of fibroblast growth factor receptor sig	0.68604178	1.197641062

GO:0004691	cAMP-dependent protein kinase activity	0.68148202	1.19764376
GO:0001619	lysophingolipid and lysophosphatidic acid receptor activity	0.8132149	1.19764427
ENSG00000109814	UGDH subnetwork	0.68714468	1.197650331
MP:0005620	abnormal muscle contractility	0.68067143	1.197664556
GO:0005795	Golgi stack	0.68192461	1.197669012
GO:0009055	electron carrier activity	0.68084804	1.197671086
ENSG00000197579	TOPORS subnetwork	0.68623686	1.1976831
ENSG00000116903	EXOC8 subnetwork	0.68159103	1.197685793
MP:0004599	abnormal vertebral arch morphology	0.68258646	1.197695057
GO:0051117	ATPase binding	0.68138504	1.197720764
MP:0004322	abnormal sternebra morphology	0.68698706	1.197732655
ENSG00000100664	EIF5 subnetwork	0.68740202	1.197739645
REACTOME_P130CAS_LINKAGE_TO_MAPK_SIGNALING_FO	REACTOME_P130CAS_LINKAGE_TO_MAPK_SIGNALING_FO	0.81319822	1.197749975
GO:0006825	copper ion transport	0.68729466	1.197751213
ENSG00000101004	NINL subnetwork	0.68712334	1.19775566
GO:0001578	microtubule bundle formation	0.68079032	1.197766364
ENSG00000186432	KPNA4 subnetwork	0.68249824	1.197783868
ENSG00000175213	ZNF408 subnetwork	0.81314527	1.197785066
GO:0030675	Rac GTPase activator activity	0.68691709	1.197785672
MP:0000748	progressive muscle weakness	0.81306406	1.197789888
ENSG00000115677	HDLBP subnetwork	0.68136008	1.197798067
GO:0015924	mannosyl-oligosaccharide mannosidase activity	0.68257845	1.197831785
ENSG00000206376	EHMT2 subnetwork	0.81306191	1.19789564
ENSG00000007047	MARK4 subnetwork	0.68756725	1.19791149
MP:0002211	abnormal primary sex determination	0.68771741	1.197970894
ENSG00000137324	ENSG00000137324 subnetwork	0.81306191	1.198016554
ENSG00000198886	MT-ND4 subnetwork	0.81257517	1.198091102
GO:0005123	death receptor binding	0.81253146	1.198126263
ENSG00000198018	ENTPD7 subnetwork	0.81296168	1.198132256
ENSG00000204371	EHMT2 subnetwork	0.81306191	1.198137492
GO:0044070	regulation of anion transport	0.68803612	1.198160634
ENSG00000092108	SCFD1 subnetwork	0.68815544	1.19819042
GO:0051048	negative regulation of secretion	0.81293362	1.198192649
GO:0031998	regulation of fatty acid beta-oxidation	0.81249963	1.198216992
GO:0033177	proton-transporting two-sector ATPase complex, proton-tr	0.68798354	1.198225482
MP:0008843	absent subcutaneous adipose tissue	0.68845408	1.198267912
MP:0000562	polydactyly	0.81292852	1.198303544
ENSG00000134057	CCNB1 subnetwork	0.81247992	1.198307739
ENSG00000173545	ZNF622 subnetwork	0.68829721	1.198308893
MP:0001255	decreased body height	0.81284102	1.198318522
ENSG00000055957	ITIH1 subnetwork	0.81243291	1.19836314
MP:0000281	abnormal interventricular septum morphology	0.68843794	1.198397777
GO:0032592	integral to mitochondrial membrane	0.81239156	1.198408448
ENSG00000118271	TTR subnetwork	0.81235505	1.198499242
GO:0031091	platelet alpha granule	0.81227998	1.198529412
REACTOME_MUSCLE_CONTRA	REACTOME_MUSCLE_CONTRACTION	0.68921826	1.198582398
GO:0007184	SMAD protein import into nucleus	0.69282242	1.198589231
GO:0019825	oxygen binding	0.81222734	1.198589912
GO:0001660	fever generation	0.69247996	1.198600329
GO:0031124	mRNA 3'-end processing	0.68874094	1.198616858
ENSG00000136574	GATA4 subnetwork	0.68908497	1.19862342
GO:0000216	M/G1 transition of mitotic cell cycle	0.6926261	1.198629895
ENSG00000132773	TOE1 subnetwork	0.68995522	1.198642748

MP:0003912	decreased drinking behavior	0.68916597	1.198647212
ENSG00000196872	C2orf55 subnetwork	0.68991706	1.198666195
ENSG00000163737	PF4 subnetwork	0.68944788	1.198671312
MP:0001313	increased incidence of corneal inflammation	0.69293591	1.198683437
ENSG00000138756	BMP2K subnetwork	0.68985825	1.198683745
GO:0005516	calmodulin binding	0.81222073	1.198695916
GO:0030427	site of polarized growth	0.68905278	1.198700071
GO:0018298	protein-chromophore linkage	0.69246998	1.198729561
ENSG00000008853	RHOB2 subnetwork	0.69281583	1.198730159
ENSG00000120254	MTHFD1L subnetwork	0.69011781	1.198731414
ENSG00000165156	ZHX1 subnetwork	0.68940211	1.198736121
ENSG00000148297	MED22 subnetwork	0.69275642	1.198741769
GO:0046365	monosaccharide catabolic process	0.68958466	1.198742324
MP:0003139	patent ductus arteriosus	0.6923384	1.198758677
GO:0002070	epithelial cell maturation	0.81217622	1.1987615
MP:0004491	abnormal orientation of outer hair cell stereociliary bundle:	0.69240347	1.198764706
ENSG00000163235	TGFA subnetwork	0.81210765	1.198776542
ENSG00000115594	IL1R1 subnetwork	0.69306956	1.198777621
ENSG00000105726	ATP13A1 subnetwork	0.68889431	1.198788416
ENSG00000147905	ZCCHC7 subnetwork	0.68902763	1.198794469
GO:0048730	epidermis morphogenesis	0.68983843	1.198801653
GO:0065005	protein-lipid complex assembly	0.81201784	1.198811811
ENSG00000188536	HBA2 subnetwork	0.6920552	1.19881709
GO:0045922	negative regulation of fatty acid metabolic process	0.69031605	1.198837895
MP:0002621	delayed neural tube closure	0.69326471	1.198848414
ENSG00000211973	ENSG00000211973 subnetwork	0.69192512	1.198858017
ENSG00000114784	EIF1B subnetwork	0.69026252	1.198861357
REACTOME_RNA_POLYMERASE_III_TRANSCRIPTION_INITIATION	REACTOME_RNA_POLYMERASE_III_TRANSCRIPTION_INITIATION	0.69321122	1.198877659
REACTOME_SHC1_EVENTS_IN_EGFR_SIGNALING	REACTOME_SHC1_EVENTS_IN_EGFR_SIGNALING	0.69233498	1.198893857
GO:0034377	plasma lipoprotein particle assembly	0.81201784	1.19893305
GO:0042572	retinol metabolic process	0.69228885	1.198934918
GO:0015464	acetylcholine receptor activity	0.68983169	1.198937301
ENSG00000173726	TOMM20 subnetwork	0.69345265	1.198954417
ENSG00000206172	HBA1 subnetwork	0.6920552	1.198958211
GO:0034329	cell junction assembly	0.81195405	1.198968342
GO:0032026	response to magnesium ion	0.81149959	1.198982999
ENSG00000211979	ENSG00000211979 subnetwork	0.69192512	1.198999176
ENSG00000213512	GBP7 subnetwork	0.81172395	1.199023675
ENSG00000138642	HERC6 subnetwork	0.69095527	1.199027352
GO:0001833	inner cell mass cell proliferation	0.69077508	1.199038915
ENSG00000111725	PRKAB1 subnetwork	0.6934332	1.199042416
GO:0015238	drug transmembrane transporter activity	0.69357732	1.199048514
ENSG00000138439	FAM117B subnetwork	0.81166947	1.199069109
MP:0008658	decreased interleukin-1 beta secretion	0.69188488	1.199069713
GO:0060323	head morphogenesis	0.81146229	1.199079041
ENSG00000173540	GMPPB subnetwork	0.8119426	1.199079506
GO:0015934	large ribosomal subunit	0.69128466	1.199080731
ENSG00000136243	NUPL2 subnetwork	0.69541575	1.199086116
ENSG00000140451	PIF1 subnetwork	0.69120907	1.199098303
ENSG00000101400	SNTA1 subnetwork	0.81189404	1.199124937
GO:0042632	cholesterol homeostasis	0.81143372	1.199144737
ENSG00000196586	MYO6 subnetwork	0.69481492	1.199155623
ENSG00000152804	HHEX subnetwork	0.69537915	1.199162175

ENSG00000090006	LTBP4 subnetwork	0.6909546	1.19916873
ENSG00000047249	ATP6V1H subnetwork	0.69474788	1.199178982
REACTOME_SEMA3A_PAK_DEP	REACTOME_SEMA3A_PAK_DEPENDENT_AXON_REPULSION	0.69077342	1.199180328
MP:0002014	increased papilloma incidence	0.69187933	1.199181486
MP:0009674	decreased birth weight	0.69151638	1.199192883
ENSG00000156453	PCDH1 subnetwork	0.69115672	1.199198397
GO:0015450	P-P-bond-hydrolysis-driven protein transmembrane transp	0.8109699	1.199205063
GO:0060041	retina development in camera-type eye	0.6950081	1.199208582
ENSG00000087250	MT3 subnetwork	0.69142513	1.199210464
ENSG00000213619	NDUFS3 subnetwork	0.79089301	1.199212027
REACTOME_SIGNALING_BY_B	REACTOME_SIGNALING_BY_BMP	0.79100947	1.199212109
ENSG00000119013	NDUFB3 subnetwork	0.81037267	1.1992197
ENSG00000198925	ATG9A subnetwork	0.69578385	1.199226985
ENSG00000168005	C11orf84 subnetwork	0.81082233	1.199240352
REACTOME_PKA_ACTIVATION	REACTOME_PKA_ACTIVATION	0.69492289	1.199243668
ENSG00000143079	CTTNBP2NL subnetwork	0.69072367	1.199245105
ENSG00000108826	MRPL27 subnetwork	0.69425757	1.199248738
MP:0009780	abnormal chondrocyte physiology	0.69571858	1.199250322
GO:0055093	response to hyperoxia	0.69165212	1.199251885
GO:0001558	regulation of cell growth	0.69182476	1.199252061
MP:0004073	caudal body truncation	0.81069824	1.19925547
ENSG00000108179	PPIF subnetwork	0.69382335	1.199260042
GO:0003230	cardiac atrium development	0.81091545	1.199260685
ENSG00000116852	KIF21B subnetwork	0.69173177	1.199263753
GO:0055092	sterol homeostasis	0.81143372	1.19926612
ENSG00000107371	EXOSC3 subnetwork	0.69565035	1.199273664
ENSG00000164687	FABP5 subnetwork	0.790562	1.199294679
ENSG00000145494	NDUFS6 subnetwork	0.81122748	1.199296345
ENSG00000014216	CAPN1 subnetwork	0.69537125	1.199296848
GO:0071396	cellular response to lipid	0.69473613	1.199302053
ENSG00000171603	CLSTN1 subnetwork	0.81034138	1.199305767
ENSG00000090266	NDUFB2 subnetwork	0.81115435	1.199306399
ENSG00000133392	MYH11 subnetwork	0.69392518	1.199307105
GO:0021761	limbic system development	0.79087984	1.199310452
MP:0004765	decreased brainstem auditory evoked potential	0.78828296	1.199313573
GO:0050772	positive regulation of axonogenesis	0.8105863	1.199316109
ENSG00000213949	ITGA1 subnetwork	0.79248496	1.199316912
GO:0001960	negative regulation of cytokine-mediated signaling pathway	0.78771652	1.19932348
GO:0016045	detection of bacterium	0.69465647	1.199325434
GO:0031952	regulation of protein autophosphorylation	0.78745632	1.199328475
GO:0007346	regulation of mitotic cell cycle	0.79066048	1.199331052
ENSG00000113889	KNG1 subnetwork	0.69069994	1.199339389
MP:0001982	decreased chemically-elicited antinociception	0.7871935	1.199343887
ENSG00000198700	IPO9 subnetwork	0.81068091	1.199351636
GO:0009309	amine biosynthetic process	0.78728611	1.199354368
ENSG00000172432	GTPBP2 subnetwork	0.78839589	1.199365641
ENSG00000180817	PPA1 subnetwork	0.8105473	1.199376837
ENSG00000037749	MFAP3 subnetwork	0.78739038	1.199380466
ENSG00000125485	DDX31 subnetwork	0.78822102	1.199381111
ENSG00000113368	LMNB1 subnetwork	0.81142149	1.199382466
GO:0031011	Ino80 complex	0.78643079	1.199384968
MP:0010299	increased mammary gland tumor incidence	0.69425703	1.199389528
GO:0005518	collagen binding	0.7871295	1.199390688

MP:0003345	decreased rib number	0.69534308	1.19939639
ENSG00000109846	CRYAB subnetwork	0.69610425	1.199397026
GO:0016324	apical plasma membrane	0.78767635	1.199411887
GO:0005976	polysaccharide metabolic process	0.79084719	1.199414083
ENSG00000138685	FGF2 subnetwork	0.78817574	1.199417456
REACTOME_TRAF6_MEDIATED	REACTOME_TRAF6_MEDIATED_IRF7_ACTIVATION	0.79055822	1.199419087
GO:0034362	low-density lipoprotein particle	0.79264381	1.19942047
ENSG00000165309	ARMC3 subnetwork	0.78997159	1.199423915
GO:0051129	negative regulation of cellular component organization	0.81033965	1.199427326
GO:0005506	iron ion binding	0.79247504	1.199430701
GO:0035091	phosphatidylinositol binding	0.69411507	1.199442226
ENSG00000123700	KCNJ2 subnetwork	0.69457103	1.199448486
MP:0000530	abnormal kidney blood vessel morphology	0.69465138	1.199448551
ENSG00000164404	GDF9 subnetwork	0.7871115	1.19946875
GO:0001738	morphogenesis of a polarized epithelium	0.69627684	1.199473191
ENSG00000167491	GATAD2A subnetwork	0.69606948	1.199478923
GO:0010576	metalloenzyme regulator activity	0.8102902	1.199483021
ENSG00000157349	DDX19B subnetwork	0.69422137	1.199483386
GO:0003281	ventricular septum development	0.79050313	1.199486461
GO:0070168	negative regulation of biomineral tissue development	0.7928576	1.199487843
GO:0019787	small conjugating protein ligase activity	0.78995503	1.199506903
GO:0031093	platelet alpha granule lumen	0.81017871	1.199508263
GO:0033202	DNA helicase complex	0.78643079	1.199510008
ENSG00000127388	ENSG00000127388 subnetwork	0.69532548	1.199513539
MP:0005319	abnormal enzyme/ coenzyme level	0.79311153	1.199519032
ENSG00000167900	TK1 subnetwork	0.78767129	1.199521133
ENSG00000105127	AKAP8 subnetwork	0.79304658	1.199524154
MP:0008546	abnormal vesicle-mediated transport	0.80452548	1.199530564
ENSG00000164107	HAND2 subnetwork	0.69454375	1.199530572
ENSG00000133318	RTN3 subnetwork	0.78977592	1.19953795
ENSG00000112983	BRD8 subnetwork	0.78817328	1.199542239
ENSG00000115274	INO80B subnetwork	0.78987627	1.199543189
MP:0009885	abnormal palatal shelf elevation	0.69602143	1.199549128
GO:0007220	Notch receptor processing	0.79246494	1.199549689
GO:0034383	low-density lipoprotein particle clearance	0.80335813	1.199550378
ENSG00000152268	ENSG00000152268 subnetwork	0.78662813	1.199551803
ENSG00000164164	OTUD4 subnetwork	0.80355089	1.199555578
GO:0001836	release of cytochrome c from mitochondria	0.78809591	1.199557798
ENSG00000151576	QTRTD1 subnetwork	0.7868891	1.199562363
ENSG00000159082	SYNJ1 subnetwork	0.81027872	1.199564071
GO:0007492	endoderm development	0.79280752	1.199565397
GO:0005154	epidermal growth factor receptor binding	0.7870875	1.199567663
GO:0031970	organelle envelope lumen	0.80445443	1.199571341
GO:0003009	skeletal muscle contraction	0.78700398	1.199572828
GO:0001158	enhancer sequence-specific DNA binding	0.7904725	1.199579788
ENSG00000092531	SNAP23 subnetwork	0.79237443	1.199580702
MP:0010909	pulmonary alveolar hemorrhage	0.7863883	1.199588156
GO:0003013	circulatory system process	0.80978622	1.199619598
MP:0002954	abnormal aerobic energy metabolism	0.79303755	1.199627561
GO:0046933	hydrogen ion transporting ATP synthase activity, rotational	0.81017479	1.199629893
ENSG00000081052	COL4A4 subnetwork	0.78972272	1.19963136
ENSG00000183856	IQGAP3 subnetwork	0.79137312	1.19963201
GO:0007162	negative regulation of cell adhesion	0.69452753	1.199642019

REACTOME_CGMP_EFFECTS	REACTOME_CGMP_EFFECTS	0.78797466	1.199651369
MP:0001408	stereotypic behavior	0.78808748	1.199651405
ENSG00000197558	ENSG00000197558 subnetwork	0.69532548	1.199654162
GO:0042993	positive regulation of transcription factor import into nucle	0.78686385	1.199656107
ENSG00000175602	CCDC85B subnetwork	0.80335095	1.199657639
MP:0008321	small adenohypophysis	0.79211522	1.199658208
ENSG00000153707	PTPRD subnetwork	0.8044158	1.199663162
GO:0006972	hyperosmotic response	0.80354152	1.199667927
ENSG00000095139	ARCN1 subnetwork	0.79045817	1.199667946
ENSG00000117500	TMED5 subnetwork	0.79218107	1.199673778
MP:0010124	decreased bone mineral content	0.79027884	1.199678256
GO:0000775	chromosome, centromeric region	0.78679996	1.199682126
GO:0004532	exoribonuclease activity	0.78864488	1.199682853
GO:0033032	regulation of myeloid cell apoptotic process	0.79035743	1.199683479
GO:0030916	otic vesicle formation	0.79235282	1.1996842
MP:0005221	abnormal rostral-caudal axis patterning	0.81011468	1.199690701
ENSG00000135547	HEY2 subnetwork	0.78637835	1.199708029
MP:0009409	abnormal skeletal muscle fiber type ratio	0.79338218	1.199720757
ENSG00000112305	SMAP1 subnetwork	0.78967852	1.19972479
ENSG00000054116	TRAPPC3 subnetwork	0.80978328	1.199731156
GO:0051851	modification by host of symbiont morphology or physiology	0.79379514	1.199736407
ENSG00000184916	JAG2 subnetwork	0.80491776	1.199739849
ENSG00000159186	ENSG00000159186 subnetwork	0.79206777	1.19974104
ENSG00000160208	RRP1B subnetwork	0.79372713	1.199741549
GO:0032091	negative regulation of protein binding	0.80334085	1.199759812
ENSG00000169347	GP2 subnetwork	0.80382221	1.199759935
GO:0033280	response to vitamin D	0.80955969	1.199761518
MP:0000039	abnormal otic capsule morphology	0.80439701	1.19976521
ENSG00000198010	DLGAP2 subnetwork	0.79197919	1.199766912
ENSG00000049449	RCN1 subnetwork	0.81001285	1.199771782
GO:0060761	negative regulation of response to cytokine stimulus	0.80327003	1.19977512
ENSG00000162374	ELAVL4 subnetwork	0.78964269	1.199781886
REACTOME_ACTIVATION_OF_	REACTOME_ACTIVATION_OF_APCC_AND_APCCDC20_ME	0.79349658	1.199782834
GO:0043001	Golgi to plasma membrane protein transport	0.79369738	1.199782878
GO:0072332	signal transduction by p53 class mediator resulting in induc	0.79234114	1.199792896
ENSG00000169031	COL4A3 subnetwork	0.80488161	1.199801041
GO:0030330	DNA damage response, signal transduction by p53 class me	0.6968527	1.199801077
ENSG00000168765	GSTM4 subnetwork	0.78885587	1.199802474
MP:0005421	loose skin	0.80973635	1.199812297
ENSG00000134684	YARS subnetwork	0.8101134	1.199812373
MP:0002885	abnormal AMPA-mediated synaptic currents	0.80543287	1.199816476
ENSG00000196415	PRTN3 subnetwork	0.78637251	1.199822714
ENSG00000088926	F11 subnetwork	0.785661	1.199838205
ENSG00000074319	TSG101 subnetwork	0.78526234	1.199843342
GO:0051953	negative regulation of amine transport	0.78881296	1.199844042
ENSG00000196220	SRGAP3 subnetwork	0.80953298	1.199847762
GO:0006004	fucose metabolic process	0.78632749	1.199848769
MP:0000435	shortened head	0.79185341	1.199854937
GO:0009991	response to extracellular stimulus	0.80539872	1.199857245
ENSG00000089041	P2RX7 subnetwork	0.80968089	1.19985794
ENSG00000181929	PRKAG1 subnetwork	0.80324871	1.199861991
ENSG00000197959	DNM3 subnetwork	0.8067757	1.199862553
MP:0000371	diluted coat color	0.80438141	1.199867279

GO:0005758	mitochondrial intermembrane space	0.79365032	1.199870748
ENSG00000156976	EIF4A2 subnetwork	0.78555098	1.199879933
MP:0001515	abnormal grip strength	0.79197144	1.199880854
GO:0031941	filamentous actin	0.7895099	1.199885726
GO:0071156	regulation of cell cycle arrest	0.80305637	1.199887526
GO:0002675	positive regulation of acute inflammatory response	0.69662315	1.199888798
REACTOME_PLATELET_AGGREGATION_PLUG_FORMATION	REACTOME_PLATELET_AGGREGATION_PLUG_FORMATION	0.69683454	1.199888824
ENSG00000111049	MYF5 subnetwork	0.785465	1.199890362
GO:0051100	negative regulation of binding	0.78962923	1.199901319
ENSG00000154277	UCHL1 subnetwork	0.79180045	1.199901554
GO:0003015	heart process	0.8051018	1.199903091
GO:0001965	G-protein alpha-subunit binding	0.78519764	1.199905995
MP:0010254	nuclear cataracts	0.7862518	1.199906123
ENSG00000125356	NDUFA1 subnetwork	0.80318868	1.199913097
ENSG00000114942	EEF1B2 subnetwork	0.8048585	1.199913265
GO:0003727	single-stranded RNA binding	0.80672018	1.199913451
GO:0010894	negative regulation of steroid biosynthetic process	0.78616802	1.199916545
GO:0016229	steroid dehydrogenase activity	0.80534756	1.199918417
ENSG00000101084	C20orf24 subnetwork	0.78902094	1.199927235
GO:0001704	formation of primary germ layer	0.78911119	1.199937636
GO:0000959	mitochondrial RNA metabolic process	0.80566538	1.199938838
REACTOME_G2M_CHECKPOINTS	REACTOME_G2M_CHECKPOINTS	0.80603786	1.199938863
REACTOME_SOS:MEDIATED_SIGNALING	REACTOME_SOS:MEDIATED_SIGNALING	0.80302046	1.199943757
GO:0005328	neurotransmitter:sodium symporter activity	0.79401305	1.19994832
GO:0005548	phospholipid transporter activity	0.78564401	1.199953022
ENSG00000084234	APLP2 subnetwork	0.78947947	1.199953247
GO:0001501	skeletal system development	0.80410448	1.199959146
MP:0009278	abnormal bone marrow cell physiology	0.80952441	1.199959399
GO:0008643	carbohydrate transport	0.78516701	1.199979108
ENSG00000091513	TF subnetwork	0.80435837	1.199979579
GO:0035065	regulation of histone acetylation	0.80945774	1.199979697
GO:0001655	urogenital system development	0.80428814	1.199984683
GO:0008015	blood circulation	0.8066599	1.199984725
MP:0000925	abnormal floor plate morphology	0.80938474	1.199984772
ENSG00000156973	PDE6D subnetwork	0.80526903	1.1999898
GO:0060669	embryonic placenta morphogenesis	0.8053246	1.199989801
MP:0000913	abnormal brain development	0.78941383	1.199994805
MP:0006072	abnormal retinal apoptosis	0.78923444	1.2
GO:0010862	positive regulation of pathway-restricted SMAD protein phosphorylation	0.78545573	1.200010443
MP:0005293	impaired glucose tolerance	0.80922479	1.200015232
GO:0051262	protein tetramerization	0.69681891	1.200017556
GO:0043270	positive regulation of ion transport	0.80407036	1.200020429
ENSG00000136273	HUS1 subnetwork	0.7917951	1.200020728
GO:0033687	osteoblast proliferation	0.80298198	1.200025568
GO:0060590	ATPase regulator activity	0.80697613	1.200030541
ENSG00000049245	VAMP3 subnetwork	0.80602643	1.200030572
GO:0055007	cardiac muscle cell differentiation	0.80565256	1.200035682
GO:0000045	autophagic vacuole assembly	0.80178413	1.200035846
REACTOME_SYNTHESIS_OF_SUGARS	REACTOME_SYNTHESIS_OF_SUGARS	0.78609394	1.200036519
KEGG_TERPENOID_BACKBONE_BIOSYNTHESIS	KEGG_TERPENOID_BACKBONE_BIOSYNTHESIS	0.80906412	1.200040626
GO:0045939	negative regulation of steroid metabolic process	0.78616802	1.200041732
MP:0003400	kinked neural tube	0.80934394	1.20004569
MP:0005136	decreased growth hormone level	0.80593281	1.200045862

ENSG00000110786	PTPN5 subnetwork	0.78505591	1.200047017
GO:0009214	cyclic nucleotide catabolic process	0.80916257	1.200055855
GO:0000226	microtubule cytoskeleton organization	0.78514111	1.200057459
GO:0015078	hydrogen ion transmembrane transporter activity	0.80899423	1.200060945
MP:0003311	aminoaciduria	0.80218861	1.200066537
GO:0034330	cell junction organization	0.80714079	1.200071247
ENSG00000186081	KRT5 subnetwork	0.80663058	1.20007129
GO:0043086	negative regulation of catalytic activity	0.80294216	1.200076711
MP:0001407	short stride length	0.80426486	1.200081699
ENSG00000152413	HOMER1 subnetwork	0.80188122	1.200081925
REACTOME_CDC20PHOSPHO:APCC_MEDIATED_DEGRADATION	REACTOME_CDC20PHOSPHO:APCC_MEDIATED_DEGRADATION	0.80894733	1.200086347
REACTOME_CELL_SURFACE_INTERACTIONS_AT_THE_VASCULAR_SYSTEM	REACTOME_CELL_SURFACE_INTERACTIONS_AT_THE_VASCULAR_SYSTEM	0.80585828	1.200086637
MP:0000024	lowered ear position	0.79429793	1.200098161
ENSG00000133805	AMPD3 subnetwork	0.78939432	1.200103918
MP:0002784	abnormal Sertoli cell morphology	0.69719552	1.200105275
ENSG00000130066	SAT1 subnetwork	0.80709182	1.20011706
ENSG00000157985	AGAP1 subnetwork	0.801767	1.200117792
GO:0001106	RNA polymerase II transcription corepressor activity	0.80815972	1.200122013
ENSG00000179091	CYC1 subnetwork	0.80199208	1.200122875
ENSG00000197303	ENSG00000197303 subnetwork	0.78608254	1.200125222
MP:0002111	abnormal tail morphology	0.79179091	1.200134743
GO:0045123	cellular extravasation	0.80291513	1.200153437
ENSG00000175416	CLTB subnetwork	0.80168346	1.200153657
GO:0003854	3-beta-hydroxy-delta5-steroid dehydrogenase activity	0.8088995	1.200157472
GO:0061036	positive regulation of cartilage development	0.79899882	1.200164406
ENSG00000104725	ENSG00000104725 subnetwork	0.79420121	1.200165358
GO:0043038	amino acid activation	0.80861224	1.200167683
GO:0015074	DNA integration	0.78505538	1.200172414
MP:0006036	abnormal mitochondrial physiology	0.80632175	1.200173204
GO:0072524	pyridine-containing compound metabolic process	0.80218345	1.200174038
GO:0051603	proteolysis involved in cellular protein catabolic process	0.7989329	1.200174699
GO:2001021	negative regulation of response to DNA damage stimulus	0.79427561	1.200180841
ENSG00000032742	IFT88 subnetwork	0.80239037	1.200184237
ENSG00000061676	NCKAP1 subnetwork	0.80662434	1.200193522
GO:0015485	cholesterol binding	0.8028667	1.200194373
ENSG00000143322	ABL2 subnetwork	0.80783629	1.200198352
ENSG00000136709	WDR33 subnetwork	0.78605796	1.200213943
MP:0009873	abnormal aorta tunica media morphology	0.80163247	1.200220264
ENSG00000169896	ITGAM subnetwork	0.69718999	1.200228124
GO:0019902	phosphatase binding	0.76809041	1.200234767
ENSG00000164251	F2RL1 subnetwork	0.80141217	1.20023568
GO:0001191	RNA polymerase II transcription factor binding transcription start site	0.80815972	1.200244051
GO:0009147	pyrimidine nucleoside triphosphate metabolic process	0.76787681	1.200245517
GO:0006690	icosanoid metabolic process	0.69733294	1.20025731
ENSG00000146457	WTAP subnetwork	0.80736424	1.200259516
ENSG00000161970	RPL26 subnetwork	0.78502623	1.20026126
MP:0005132	decreased luteinizing hormone level	0.78473037	1.20026137
GO:0010927	cellular component assembly involved in morphogenesis	0.76798264	1.200261501
ENSG00000102119	EMD subnetwork	0.80887544	1.200264174
GO:0042147	retrograde transport, endosome to Golgi	0.78463789	1.200271853
MP:0001340	abnormal eyelid morphology	0.80878099	1.200274362
ENSG00000173281	PPP1R3B subnetwork	0.80660128	1.200275033
GO:0043039	tRNA aminoacylation	0.80861224	1.200289664

ENSG00000206509	HLA-F subnetwork	0.80129675	1.200292098
ENSG00000183155	RAB1F subnetwork	0.80780816	1.200295015
GO:0019362	pyridine nucleotide metabolic process	0.80218345	1.200296918
ENSG00000172660	TAF15 subnetwork	0.78602845	1.200297464
ENSG00000107281	NPDC1 subnetwork	0.79893257	1.200298047
GO:0045767	regulation of anti-apoptosis	0.80138479	1.200302316
GO:0003309	type B pancreatic cell differentiation	0.80285082	1.200312052
ENSG00000077514	POLD3 subnetwork	0.80268589	1.200317233
ENSG00000141052	MYOCD subnetwork	0.79848269	1.200318799
GO:0004602	glutathione peroxidase activity	0.80652539	1.200320905
ENSG00000198742	SMURF1 subnetwork	0.7680695	1.200325507
MP:0008976	delayed female fertility	0.80773444	1.200335741
GO:0043331	response to dsRNA	0.76824034	1.200336108
ENSG00000171747	LGALS4 subnetwork	0.80163085	1.200343238
MP:0011096	complete embryonic lethality before somite formation	0.6978127	1.200344828
MP:0005269	abnormal occipital bone morphology	0.76786966	1.200346963
ENSG00000129562	DAD1 subnetwork	0.784997	1.200355351
GO:0042625	ATPase activity, coupled to transmembrane movement of i	0.80855209	1.200355763
GO:0010171	body morphogenesis	0.80814854	1.200355944
GO:0032494	response to peptidoglycan	0.69717915	1.20035685
ENSG00000100852	ARHGAP5 subnetwork	0.79888907	1.200359749
GO:0008016	regulation of heart contraction	0.78490508	1.200360615
MP:0004324	vestibular hair cell degeneration	0.80840226	1.200371086
ENSG00000138668	HNRNPD subnetwork	0.78443616	1.2003713
ENSG00000111652	COPS7A subnetwork	0.8075556	1.200371426
GO:0032369	negative regulation of lipid transport	0.80766251	1.20038665
MP:0005658	increased susceptibility to diet-induced obesity	0.76782394	1.200389707
ENSG00000166136	NDUFB8 subnetwork	0.80850526	1.200391379
MP:0000837	abnormal hypothalamus morphology	0.80127739	1.200394629
ENSG00000125450	NUP85 subnetwork	0.7848478	1.20039724
ENSG00000115232	ITGA4 subnetwork	0.78463029	1.200397365
ENSG00000122585	NPY subnetwork	0.80082227	1.200410214
MP:0003961	decreased lean body mass	0.76775659	1.200411105
GO:0072384	organelle transport along microtubule	0.79845972	1.200411396
ENSG00000134025	ENSG00000134025 subnetwork	0.79461529	1.200413266
GO:0046982	protein heterodimerization activity	0.8028404	1.200414407
ENSG00000204175	GPRIN2 subnetwork	0.79861631	1.200416452
MP:0001953	respiratory failure	0.80120443	1.200420297
GO:0033688	regulation of osteoblast proliferation	0.80091136	1.200420427
ENSG00000196655	TRAPPC4 subnetwork	0.80267679	1.200434961
REACTOME_TRANSPORT_OF_M	REACTOME_TRANSPORT_OF_MATURE_MRNA_DERIVED_FI	0.76767693	1.200448526
GO:0004303	estradiol 17-beta-dehydrogenase activity	0.78457993	1.200449697
GO:0060541	respiratory system development	0.80813213	1.200457689
GO:0022829	wide pore channel activity	0.76761359	1.200464595
GO:0042044	fluid transport	0.78441637	1.200475941
ENSG00000110244	APOA4 subnetwork	0.80105779	1.200476776
ENSG00000170542	SERPINB9 subnetwork	0.69779562	1.200479308
MP:0002106	abnormal muscle physiology	0.79888716	1.200483141
GO:0001608	G-protein coupled nucleotide receptor activity	0.69772277	1.20048521
GO:0035254	glutamate receptor binding	0.80117306	1.200492106
KEGG_CELL_CYCLE	KEGG_CELL_CYCLE	0.80079781	1.200497436
GO:0042476	odontogenesis	0.76754191	1.20050737
MP:0005103	abnormal retinal pigmentation	0.79844863	1.20051944

ENSG00000114978	MOB1A subnetwork	0.7670569	1.200529072
ENSG00000169592	INO80E subnetwork	0.7948602	1.200537135
ENSG00000149084	HSD17B12 subnetwork	0.76713513	1.200539703
MP:0006279	abnormal limb development	0.79479633	1.200557851
GO:0000793	condensed chromosome	0.79886511	1.200560296
ENSG00000150347	ARID5B subnetwork	0.69957726	1.20056573
ENSG00000173581	CCDC106 subnetwork	0.76894112	1.200575754
MP:0002062	abnormal associative learning	0.76921703	1.2005809
ENSG00000204531	POU5F1 subnetwork	0.79838099	1.200581216
MP:0000233	abnormal blood flow velocity	0.76846377	1.200581457
ENSG00000121691	CAT subnetwork	0.6996752	1.200583158
ENSG00000118680	MYL12B subnetwork	0.80078332	1.200589804
GO:0016814	hydrolase activity, acting on carbon-nitrogen (but not pepti	0.76743116	1.200592949
ENSG00000170296	GABARAP subnetwork	0.76660622	1.200593519
ENSG00000164867	NOS3 subnetwork	0.78439991	1.200596297
MP:0006362	abnormal male germ cell morphology	0.76751232	1.200598227
MP:0000780	abnormal corpus callosum morphology	0.7693982	1.200602089
ENSG00000105568	PPP2R1A subnetwork	0.76871862	1.200602602
ENSG00000163083	INHBB subnetwork	0.76681315	1.200604084
GO:0032608	interferon-beta production	0.76732848	1.200614382
GO:0043551	regulation of phosphatidylinositol 3-kinase activity	0.79883758	1.200622044
ENSG00000184702	SEPT5 subnetwork	0.79498216	1.200624871
GO:0045028	G-protein coupled purinergic nucleotide receptor activity	0.69772277	1.200625585
ENSG00000183020	AP2A2 subnetwork	0.79750013	1.200628218
ENSG00000187498	COL4A1 subnetwork	0.76956922	1.200628596
GO:0014037	Schwann cell differentiation	0.7666971	1.200630881
REACTOME_INFLUENZA_LIFE_CYCLE	REACTOME_INFLUENZA_LIFE_CYCLE	0.80072541	1.200636028
MP:0004448	abnormal presphenoid bone morphology	0.76948075	1.200644646
GO:0060076	excitatory synapse	0.76704606	1.200646713
ENSG00000104960	PTOV1 subnetwork	0.69953015	1.200647457
MP:0002269	muscular atrophy	0.76916369	1.20065558
ENSG00000198786	MT-ND5 subnetwork	0.7961142	1.200660202
ENSG00000161011	SQSTM1 subnetwork	0.76934348	1.200666098
ENSG00000151577	DRD3 subnetwork	0.79631005	1.20067038
KEGG_ALZHEIMERS_DISEASE	KEGG_ALZHEIMERS_DISEASE	0.76891242	1.200671785
REACTOME_RNA_POLYMERASE_II_TRANSCRIPTION	REACTOME_RNA_POLYMERASE_II_TRANSCRIPTION	0.7962181	1.200675606
ENSG00000104497	SNX16 subnetwork	0.69945896	1.200682534
ENSG00000127527	EPS15L1 subnetwork	0.78437792	1.20068529
ENSG00000206349	ENSG00000206349 subnetwork	0.79838099	1.200704733
MP:0000182	increased circulating LDL cholesterol level	0.79792292	1.200705168
MP:0001328	disorganized retinal layers	0.79746301	1.200705531
GO:0015093	ferrous iron transmembrane transporter activity	0.76658863	1.200705882
REACTOME_PLATELET_CALCIIUM_HOMEOSTASIS	REACTOME_PLATELET_CALCIIUM_HOMEOSTASIS	0.76870778	1.200709333
ENSG00000136527	TRA2B subnetwork	0.80046568	1.200713259
ENSG00000115234	SNX17 subnetwork	0.69768181	1.200713367
ENSG00000102580	DNAJC3 subnetwork	0.76698112	1.200716271
MP:0004500	increased incidence of ionizing radiation-induced tumors	0.76731671	1.200721308
ENSG00000213496	ENSG00000213496 subnetwork	0.79642102	1.200721873
GO:0008652	cellular amino acid biosynthetic process	0.80069756	1.200723299
ENSG00000123992	DNPEP subnetwork	0.79597846	1.200727404
GO:0033273	response to vitamin	0.76913705	1.200735608
ENSG00000072832	CRMP1 subnetwork	0.79785213	1.200741275
GO:0045766	positive regulation of angiogenesis	0.69814275	1.200742169

MP:0006055	abnormal vascular endothelial cell morphology	0.80062648	1.200743895
GO:0009084	glutamine family amino acid biosynthetic process	0.69834836	1.200747838
ENSG00000184432	COPB2 subnetwork	0.76653211	1.200764788
MP:0006035	abnormal mitochondrial morphology	0.79562232	1.200768993
ENSG00000166971	AKTIP subnetwork	0.76887641	1.200773168
MP:0009114	decreased pancreatic beta cell mass	0.79573423	1.200774074
ENSG00000212870	ENSG00000212870 subnetwork	0.7961142	1.200784071
GO:0018022	peptidyl-lysine methylation	0.80043172	1.200785179
MP:0008515	thin retinal outer nuclear layer	0.80033775	1.20078526
MP:0003324	increased liver adenoma incidence	0.69827648	1.200788828
GO:0071241	cellular response to inorganic substance	0.79743786	1.20079316
GO:0033764	steroid dehydrogenase activity, acting on the CH-OH group	0.79654664	1.200793978
GO:0007018	microtubule-based movement	0.69845992	1.200800327
REACTOME_RESPONSE_TO_EL	REACTOME_RESPONSE_TO_ELEVATED_PLATELET_CYTOSOL	0.80059925	1.20080041
MP:0008965	increased basal metabolism	0.7843738	1.200810924
ENSG00000214826	ENSG00000214826 subnetwork	0.6994505	1.200810968
ENSG00000165264	NDUFB6 subnetwork	0.79971267	1.200816641
ENSG00000131791	PRKAB2 subnetwork	0.79595452	1.200820349
ENSG00000149428	HYOU1 subnetwork	0.79545688	1.200820772
MP:0002576	abnormal enamel morphology	0.79962255	1.200821862
REACTOME_SIGNALING_BY_VEGF	REACTOME_SIGNALING_BY_VEGF	0.79831607	1.200823215
REACTOME_NITRIC_OXIDE_STIMULATES_GUANYLATE_CYCLASE_ACTIVITY	REACTOME_NITRIC_OXIDE_STIMULATES_GUANYLATE_CYCLASE_ACTIVITY	0.79782691	1.200823723
MP:0002769	abnormal vas deferens morphology	0.7625831	1.200827779
ENSG00000206454	POU5F1 subnetwork	0.79838099	1.200828275
REACTOME_FACTORS_INVOLVED_IN_MEGAKARYOCYTE_DIFFERENTIATION	REACTOME_FACTORS_INVOLVED_IN_MEGAKARYOCYTE_DIFFERENTIATION	0.79807881	1.200828616
GO:0051721	protein phosphatase 2A binding	0.76870379	1.200832089
ENSG00000137955	RABGGTB subnetwork	0.76650351	1.200845101
ENSG00000061938	TNK2 subnetwork	0.79958047	1.200863043
MP:0003723	abnormal long bone morphology	0.79997208	1.200878094
ENSG00000205560	CPT1B subnetwork	0.80032478	1.200887999
GO:0015684	ferrous iron transport	0.79742401	1.20089111
GO:0032677	regulation of interleukin-8 production	0.79561753	1.200892949
MP:0003786	premature aging	0.76609716	1.20090442
MP:0006356	abnormal third branchial arch artery morphology	0.76529022	1.200910747
ENSG00000212789	ENSG00000212789 subnetwork	0.79780621	1.200911338
GO:0030502	negative regulation of bone mineralization	0.79704127	1.200917242
GO:0071322	cellular response to carbohydrate stimulus	0.79696276	1.200917337
GO:0033559	unsaturated fatty acid metabolic process	0.76582972	1.200920869
ENSG00000157483	MYO1E subnetwork	0.78436449	1.200920887
ENSG00000143622	RIT1 subnetwork	0.77159278	1.200924647
KEGG_GLYCOPHINGOLIPID_BIOSYNTHESIS_LACTO_AND_GALACTO	KEGG_GLYCOPHINGOLIPID_BIOSYNTHESIS_LACTO_AND_GALACTO	0.76519337	1.200926918
GO:0043588	skin development	0.76511064	1.200927017
GO:0006767	water-soluble vitamin metabolic process	0.77088203	1.20093095
ENSG00000173207	CKS1B subnetwork	0.79594979	1.200939112
GO:0006096	glycolysis	0.79545237	1.200939597
GO:0016529	sarcoplasmic reticulum	0.76648112	1.200941479
ENSG00000020577	SAMD4A subnetwork	0.79992781	1.200944947
MP:0004001	decreased hepatocyte proliferation	0.77153564	1.200946003
REACTOME_VEGF_LIGAND:RECEPTOR_INTERACTIONS	REACTOME_VEGF_LIGAND:RECEPTOR_INTERACTIONS	0.79831607	1.200946794
GO:0030433	ER-associated protein catabolic process	0.79531611	1.200950119
ENSG00000111788	ENSG00000111788 subnetwork	0.6994505	1.200951103
ENSG00000114354	TFG subnetwork	0.76258162	1.200956886
MP:0001783	decreased white adipose tissue amount	0.76542511	1.20095886

GO:0035116	embryonic hindlimb morphogenesis	0.7953706	1.200960347
ENSG00000072110	ACTN1 subnetwork	0.79719586	1.200973825
ENSG00000136231	IGF2BP3 subnetwork	0.76606444	1.200974095
ENSG00000118491	C6orf94 subnetwork	0.80029834	1.200975359
GO:0018196	peptidyl-asparagine modification	0.77132862	1.200983519
REACTOME_CENTROSOME_MATURATION	REACTOME_CENTROSOME_MATURATION	0.76643223	1.200984378
ENSG00000103490	PYCARD subnetwork	0.6987712	1.200987034
GO:0016725	oxidoreductase activity, acting on CH or CH2 groups	0.77099369	1.200989362
GO:0006733	oxidoreduction coenzyme metabolic process	0.70021363	1.200991023
REACTOME_INTERACTIONS_OF_VPR_WITH_HOST_CELLULAR_COMPONENTS	REACTOME_INTERACTIONS_OF_VPR_WITH_HOST_CELLULAR_COMPONENTS	0.79740751	1.20099423
GO:0006914	autophagy	0.79827009	1.200998353
GO:0017002	activin-activated receptor activity	0.6986996	1.200998832
KEGG_PRIMARY_BILE_ACID_BIOSYNTHESIS	KEGG_PRIMARY_BILE_ACID_BIOSYNTHESIS	0.77105343	1.201005212
ENSG00000134001	EIF2S1 subnetwork	0.76579135	1.201011994
GO:0033293	monocarboxylic acid binding	0.70012189	1.201014459
GO:0006333	chromatin assembly or disassembly	0.69924408	1.201015643
MP:0005114	premature hair loss	0.80019807	1.20102177
ENSG00000163220	S100A9 subnetwork	0.77183207	1.201025396
MP:0001713	decreased trophoblast giant cell number	0.77084636	1.201026814
GO:0015923	mannosidase activity	0.79696097	1.201030822
REACTOME_GLUCOSE_METABOLISM	REACTOME_GLUCOSE_METABOLISM	0.78385947	1.201036649
GO:0043632	modification-dependent macromolecule catabolic process	0.78435856	1.20104134
ENSG00000179222	MAGED1 subnetwork	0.76629599	1.20104345
MP:0006065	abnormal heart position or orientation	0.78378405	1.20104723
REACTOME_APCCCDH1_MEDIATED_DEGRADATION_OF_CELLULAR_COMPONENTS	REACTOME_APCCCDH1_MEDIATED_DEGRADATION_OF_CELLULAR_COMPONENTS	0.76556753	1.201049813
ENSG00000131238	PPT1 subnetwork	0.76510379	1.201055734
MP:0010869	decreased bone trabecula number	0.69941475	1.201056256
GO:0006308	DNA catabolic process	0.7707984	1.201058849
GO:0010269	response to selenium ion	0.8002693	1.201062737
GO:0044447	axoneme part	0.76256028	1.201064516
GO:0005819	spindle	0.78396409	1.201067951
ENSG00000060140	STYK1 subnetwork	0.7660513	1.201070549
ENSG00000133107	TRPC4 subnetwork	0.7841018	1.201073074
ENSG00000154262	ABCA6 subnetwork	0.78373221	1.201073523
ENSG00000165684	SNAPC4 subnetwork	0.77153421	1.201073669
REACTOME_ROLE_OF_DCC_IN_REGULATING_APOPTOSIS	REACTOME_ROLE_OF_DCC_IN_REGULATING_APOPTOSIS	0.69921313	1.201074139
ENSG00000185633	NDUFA4L2 subnetwork	0.77178439	1.20107864
ENSG00000171843	MLLT3 subnetwork	0.70008455	1.201078717
ENSG00000189043	NDUFA4 subnetwork	0.7657505	1.201081718
GO:0009629	response to gravity	0.79690259	1.201082474
ENSG00000104805	NUCB1 subnetwork	0.76297028	1.201085555
ENSG00000173566	NUDT18 subnetwork	0.76567819	1.201087189
GO:0030574	collagen catabolic process	0.79683394	1.201098051
ENSG00000198873	GRK5 subnetwork	0.76459762	1.201104676
GO:0055037	recycling endosome	0.69891528	1.201109554
GO:0018279	protein N-linked glycosylation via asparagine	0.77132862	1.201111229
REACTOME_RECRUITMENT_OF_MITOTIC_CENTROSOME_P	REACTOME_RECRUITMENT_OF_MITOTIC_CENTROSOME_P	0.76643223	1.201112895
ENSG00000063601	MTMR1 subnetwork	0.70048202	1.201113183
ENSG00000152661	GJA1 subnetwork	0.78430037	1.201114716
GO:0001656	metanephros development	0.7974016	1.20111798
ENSG00000136158	SPRY2 subnetwork	0.76507373	1.201136242
GO:0030104	water homeostasis	0.77150544	1.201148203
MP:0000787	abnormal telencephalon morphology	0.6990369	1.201156137

ENSG00000100767	PAPLN subnetwork	0.77121292	1.201159328
ENSG00000148835	TAF5 subnetwork	0.69915081	1.20116184
MP:0004819	decreased skeletal muscle mass	0.70043602	1.201165773
ENSG00000101213	PTK6 subnetwork	0.76255177	1.201166792
ENSG00000067057	PFKP subnetwork	0.78424733	1.201167173
ENSG00000109534	GAR1 subnetwork	0.7712823	1.201169839
ENSG00000164093	PITX2 subnetwork	0.69939489	1.201173106
ENSG00000104863	LIN7B subnetwork	0.7632566	1.201176534
GO:0043425	bHLH transcription factor binding	0.77079514	1.201186675
ENSG00000109272	PF4V1 subnetwork	0.78372207	1.201194092
GO:0007398	ectoderm development	0.7645811	1.201195967
ENSG00000125508	SRMS subnetwork	0.7660513	1.201199143
MP:0001722	pale yolk sac	0.77066544	1.201208218
MP:0003990	decreased neurotransmitter release	0.76336051	1.201208638
GO:0000139	Golgi membrane	0.76296226	1.201214662
GO:0015296	anion:cation symporter activity	0.77434321	1.201218349
GO:0046718	viral entry into host cell	0.77074508	1.201224055
ENSG00000138411	HECW2 subnetwork	0.76493176	1.201227619
REACTOME_CELL_CYCLE_CHEC	REACTOME_CELL_CYCLE_CHECKPOINTS	0.77446438	1.201244703
ENSG00000169180	XPO6 subnetwork	0.70088228	1.201258301
MP:0003809	abnormal hair shaft morphology	0.76507252	1.201259648
ENSG00000107341	UBE2R2 subnetwork	0.76324019	1.201273372
GO:0016780	phosphotransferase activity, for other substituted phospho	0.70071334	1.201276075
ENSG00000065978	YBX1 subnetwork	0.762546	1.2012906
GO:0005884	actin filament	0.70107209	1.201304601
ENSG00000205813	ENSG00000205813 subnetwork	0.78372207	1.201319925
GO:0006725	cellular aromatic compound metabolic process	0.76457946	1.201324823
GO:0008544	epidermis development	0.77065561	1.201325455
MP:0001700	abnormal embryo turning	0.70101162	1.201328052
ENSG00000146963	LUC7L2 subnetwork	0.70084873	1.201328362
MP:0002196	absent corpus callosum	0.77432864	1.201329731
ENSG00000072201	LNK1 subnetwork	0.77425705	1.201340468
ENSG00000169131	ZNF354A subnetwork	0.77013431	1.201352935
ENSG00000174718	C12orf35 subnetwork	0.7649306	1.201356423
REACTOME_CELL_CYCLE_MITC	REACTOME_CELL_CYCLE_MITOTIC	0.76485344	1.201356568
MP:0006379	abnormal spermatocyte morphology	0.70067041	1.201363636
GO:0006399	tRNA metabolic process	0.76358588	1.201364125
GO:0043535	regulation of blood vessel endothelial cell migration	0.76321924	1.201380978
ENSG00000102081	FMR1 subnetwork	0.76445509	1.20139485
REACTOME_APCCDC20_MED	REACTOME_APCCDC20_MEDIATED_DEGRADATION_OF_N	0.77042894	1.201395101
ENSG00000124194	GDAP1L1 subnetwork	0.77051501	1.201400277
ENSG00000167774	NDUFA7 subnetwork	0.76239461	1.201403981
ENSG00000206480	FLOT1 subnetwork	0.77354533	1.201405239
GO:0005732	small nucleolar ribonucleoprotein complex	0.76245449	1.201414587
ENSG00000165996	PTPLA subnetwork	0.76355638	1.201417983
GO:0051236	establishment of RNA localization	0.78369985	1.201419591
GO:0006513	protein monoubiquitination	0.76254337	1.201419813
GO:0034754	cellular hormone metabolic process	0.70144405	1.201432231
ENSG00000037042	TUBG2 subnetwork	0.76456512	1.20143225
MP:0009838	abnormal sperm axoneme morphology	0.77384492	1.2014419
GO:0042743	hydrogen peroxide metabolic process	0.77365128	1.201442206
GO:0072074	kidney mesenchyme development	0.77393998	1.201447048
MP:0005627	increased circulating potassium level	0.77065294	1.201448041

GO:0046461	neutral lipid catabolic process	0.70697828	1.20146209
ENSG00000115760	BIRC6 subnetwork	0.77425614	1.201467783
ENSG00000163462	TRIM46 subnetwork	0.70139037	1.20147898
ENSG00000143033	MTF2 subnetwork	0.76441802	1.201480846
ENSG00000168872	DDX19A subnetwork	0.77041263	1.201491107
ENSG00000078403	MLLT10 subnetwork	0.70181633	1.201507216
ENSG00000101349	PAK7 subnetwork	0.762391	1.201527867
GO:0071320	cellular response to cAMP	0.76436177	1.201529298
REACTOME_UNFOLDED_PROTEIN_RESPONSE	REACTOME_UNFOLDED_PROTEIN_RESPONSE	0.77420034	1.201531532
ENSG00000206379	FLOT1 subnetwork	0.77354533	1.201532669
GO:0050658	RNA transport	0.78369985	1.201545474
ENSG00000104738	MCM4 subnetwork	0.70731867	1.201548238
ENSG00000198846	TOX subnetwork	0.71543929	1.201548394
GO:0032388	positive regulation of intracellular transport	0.7071242	1.201548596
GO:0032924	activin receptor signaling pathway	0.76396978	1.201562332
ENSG00000091651	ORC6 subnetwork	0.77383772	1.201569293
ENSG00000114554	PLXNA1 subnetwork	0.70135512	1.20157815
GO:0006706	steroid catabolic process	0.70724587	1.201583083
ENSG00000140740	UQCRC2 subnetwork	0.77038914	1.201587133
ENSG00000135698	MPHOSPH6 subnetwork	0.70178426	1.201588872
MP:0000432	abnormal head morphology	0.70170533	1.201594878
GO:0015370	solute:sodium symporter activity	0.77417334	1.201600594
GO:0044269	glycerol ether catabolic process	0.70697828	1.201600971
GO:0007498	mesoderm development	0.76432997	1.201615327
ENSG00000101439	CST3 subnetwork	0.76234486	1.201619499
ENSG00000137500	CCDC90B subnetwork	0.76384277	1.201621738
GO:0060231	mesenchymal to epithelial transition	0.70165537	1.201629992
MP:0002286	cryptorchism	0.70580259	1.201643899
MP:0004875	increased mean systemic arterial blood pressure	0.70593405	1.201655284
ENSG00000137312	FLOT1 subnetwork	0.77354533	1.201660125
MP:0009243	hairpin sperm flagellum	0.76396076	1.201669888
ENSG00000109805	NCAPG subnetwork	0.78173478	1.201669993
GO:0050657	nucleic acid transport	0.78369985	1.201671382
GO:0048332	mesoderm morphogenesis	0.71656368	1.201677508
ENSG00000124097	ENSG00000124097 subnetwork	0.71543929	1.201685714
GO:0006007	glucose catabolic process	0.78305823	1.201693582
GO:0019637	organophosphate metabolic process	0.76420981	1.201696189
ENSG00000130762	ARHGEF16 subnetwork	0.76431419	1.201717475
ENSG00000147509	RGS20 subnetwork	0.7616808	1.201717824
GO:0035336	long-chain fatty-acyl-CoA metabolic process	0.76233174	1.201721911
GO:0016667	oxidoreductase activity, acting on a sulfur group of donors	0.78319631	1.201735347
GO:0046464	acylglycerol catabolic process	0.70697828	1.201739884
GO:0016866	intramolecular transferase activity	0.78171389	1.201743697
MP:0002855	abnormal cochlear ganglion morphology	0.7830179	1.201746198
ENSG00000049323	LTBP1 subnetwork	0.76415254	1.20176079
ENSG00000171421	MRPL36 subnetwork	0.76163101	1.20176648
GO:0017022	myosin binding	0.78367984	1.201781597
ENSG00000180370	PAK2 subnetwork	0.77353505	1.201782304
ENSG00000168646	AXIN2 subnetwork	0.70580067	1.201783027
ENSG00000178209	PLEC subnetwork	0.7159314	1.201793261
KEGG_METABOLISM_OF_XENOBIOTICS_BY_CYTOCHROME_P450	KEGG_METABOLISM_OF_XENOBIOTICS_BY_CYTOCHROME_P450	0.71655415	1.201803241
ENSG00000130332	LSM7 subnetwork	0.78298441	1.201814558
ENSG00000123728	RAP2C subnetwork	0.70558462	1.201818392

GO:0051018	protein kinase A binding	0.77347482	1.201819629
ENSG00000103460	TOX3 subnetwork	0.71543929	1.201823065
MP:0009757	impaired behavioral response to morphine	0.70670623	1.201827435
GO:0006511	ubiquitin-dependent protein catabolic process	0.77308857	1.20183121
GO:0045736	negative regulation of cyclin-dependent protein kinase activity	0.70574025	1.20183534
MP:0000060	delayed bone ossification	0.7175058	1.201840875
GO:0030851	granulocyte differentiation	0.77326046	1.201841435
GO:0071384	cellular response to corticosteroid stimulus	0.7054779	1.20184177
GO:0004553	hydrolase activity, hydrolyzing O-glycosyl compounds	0.77486483	1.201843025
GO:0009264	deoxyribonucleotide catabolic process	0.70650283	1.201845211
GO:0019887	protein kinase regulator activity	0.71536506	1.201846136
GO:0035338	long-chain fatty-acyl-CoA biosynthetic process	0.76233174	1.201851254
GO:0005161	platelet-derived growth factor receptor binding	0.78168858	1.201854186
MP:0004090	abnormal sarcomere morphology	0.71689538	1.201859457
ENSG00000121931	LRIF1 subnetwork	0.70696763	1.201861487
ENSG00000128513	POT1 subnetwork	0.71604711	1.201861581
MP:0004174	abnormal spine curvature	0.77342723	1.201862267
MP:0000790	abnormal stratification in cerebral cortex	0.78290967	1.201867198
GO:0004659	prenyltransferase activity	0.77337629	1.201873077
GO:0008654	phospholipid biosynthetic process	0.71590048	1.201873429
ENSG00000121542	SEC22A subnetwork	0.76161309	1.201874394
GO:0046165	alcohol biosynthetic process	0.71709469	1.201876141
MP:0002113	abnormal skeleton development	0.76226052	1.201883746
ENSG00000023318	ERP44 subnetwork	0.77250574	1.20188569
GO:0072527	pyrimidine-containing compound metabolic process	0.71744702	1.201886685
ENSG00000125798	FOXA2 subnetwork	0.70665257	1.201891267
GO:0032933	SREBP-mediated signaling pathway	0.75908421	1.201896682
ENSG00000105972	ENSG00000105972 subnetwork	0.7732117	1.201900011
ENSG00000078579	FGF20 subnetwork	0.78367604	1.201902316
GO:0034694	response to prostaglandin stimulus	0.75884699	1.201902703
GO:0090329	regulation of DNA-dependent DNA replication	0.78197494	1.201906112
ENSG00000163435	ELF3 subnetwork	0.77273175	1.20190633
GO:0043534	blood vessel endothelial cell migration	0.70644384	1.201909059
ENSG00000111530	CAND1 subnetwork	0.70525055	1.201911935
ENSG00000163993	S100P subnetwork	0.77244441	1.201912452
GO:0032414	positive regulation of ion transmembrane transporter activity	0.75891889	1.201913307
GO:0048286	lung alveolus development	0.70856694	1.20191509
ENSG00000091592	NLRP1 subnetwork	0.77301456	1.201916339
ENSG00000100842	EFS subnetwork	0.78162822	1.20191742
ENSG00000163002	NUP35 subnetwork	0.71720456	1.201921542
GO:0032722	positive regulation of chemokine production	0.71655046	1.201923296
GO:0016903	oxidoreductase activity, acting on the aldehyde or oxo group	0.77285232	1.201927365
ENSG00000139239	ENSG00000139239 subnetwork	0.70769338	1.201929075
GO:0000768	syncytium formation by plasma membrane fusion	0.72472522	1.201930894
ENSG00000052802	MSMO1 subnetwork	0.70572732	1.20193978
ENSG00000152700	SAR1B subnetwork	0.71628182	1.201941082
MP:0002813	microcytosis	0.78348534	1.201944648
ENSG00000162231	NXF1 subnetwork	0.75920721	1.201945105
GO:0007440	foregut morphogenesis	0.78286468	1.201946076
GO:0007520	myoblast fusion	0.78341004	1.201950094
ENSG00000198805	PNP subnetwork	0.77294627	1.201953706
ENSG00000116962	NID1 subnetwork	0.78154543	1.201954397
ENSG00000170144	HNRNPA3 subnetwork	0.7023348	1.201954625

ENSG00000182319	SGK223 subnetwork	0.7174085	1.201955307
ENSG00000159199	ATP5G1 subnetwork	0.71686775	1.201956646
MP:0000523	cortical renal glomerulopathies	0.78222111	1.201958005
MP:0005455	increased susceptibility to weight gain	0.71128088	1.20195977
ENSG00000131558	EXOC4 subnetwork	0.70694568	1.201959991
REACTOME_G_ALPHA_1213_S	REACTOME_G_ALPHA_1213_SIGNALLING_EVENTS	0.76157342	1.201960784
MP:0004405	absent cochlear hair cells	0.75905843	1.201961738
GO:0002320	lymphoid progenitor cell differentiation	0.71706816	1.201961903
GO:0010639	negative regulation of organelle organization	0.77269756	1.20196495
ENSG00000175390	EIF3F subnetwork	0.70621336	1.201967593
MP:0005058	abnormal lysosome morphology	0.71535215	1.201972105
GO:0042481	regulation of odontogenesis	0.70816719	1.20197414
GO:0048617	embryonic foregut morphogenesis	0.76222324	1.201975455
GO:0071385	cellular response to glucocorticoid stimulus	0.7054779	1.201981001
ENSG00000047932	GOPC subnetwork	0.78363859	1.201981132
GO:0007026	negative regulation of microtubule depolymerization	0.71166761	1.201981847
ENSG00000135723	FHOD1 subnetwork	0.71147526	1.201982303
GO:0051604	protein maturation	0.70784319	1.201986602
MP:0001721	absent visceral yolk sac blood islands	0.70328647	1.201986986
KEGG_NICOTINATE_AND_NICC	KEGG_NICOTINATE_AND_NICOTINAMIDE_METABOLISM	0.72467912	1.201987578
GO:0042440	pigment metabolic process	0.71589641	1.20198789
GO:0010769	regulation of cell morphogenesis involved in differentiation	0.70261669	1.201988835
ENSG00000171634	BPTF subnetwork	0.70520943	1.201993278
GO:0046875	ephrin receptor binding	0.7114004	1.201994024
ENSG00000069011	PITX1 subnetwork	0.70688639	1.201994912
ENSG00000165525	NEMF subnetwork	0.70244293	1.201995114
GO:0060343	trabecula formation	0.77263188	1.201997026
GO:0051668	localization within membrane	0.70540878	1.20199861
MP:0004965	inner cell mass degeneration	0.71120509	1.20200023
GO:0007009	plasma membrane organization	0.78282801	1.202009233
ENSG00000135052	GOLM1 subnetwork	0.70766788	1.202010166
ENSG00000140374	ETFA subnetwork	0.70853974	1.202019153
ENSG00000146677	ENSG00000146677 subnetwork	0.78244566	1.202020573
MP:0005643	decreased dopamine level	0.70219645	1.202024904
MP:0000747	muscle weakness	0.75884363	1.202027246
GO:0007143	female meiosis	0.76154135	1.202036418
ENSG00000128534	NAA38 subnetwork	0.70643225	1.202036566
ENSG00000075643	MOCOS subnetwork	0.78217798	1.202042209
ENSG00000166855	CLPX subnetwork	0.71653379	1.202049087
GO:0008307	structural constituent of muscle	0.71626648	1.202049789
GO:0014070	response to organic cyclic compound	0.70347096	1.202050656
GO:0005262	calcium channel activity	0.71160797	1.202051017
ENSG00000131711	MAP1B subnetwork	0.71739122	1.202058153
GO:0030663	COPI coated vesicle membrane	0.70229675	1.202059576
GO:0045652	regulation of megakaryocyte differentiation	0.78153426	1.202059689
ENSG00000163879	DNALI1 subnetwork	0.70411744	1.20206036
ENSG00000105819	PMPCB subnetwork	0.71685582	1.202065267
GO:0070373	negative regulation of ERK1 and ERK2 cascade	0.70848334	1.202065544
ENSG00000005469	CROT subnetwork	0.7621918	1.202067183
GO:0065004	protein-DNA complex assembly	0.70798467	1.202067213
ENSG00000115694	STK25 subnetwork	0.71585714	1.202068099
GO:0016441	posttranscriptional gene silencing	0.70882928	1.202076125
ENSG00000162702	ZNF281 subnetwork	0.7225838	1.202078143

ENSG00000112742	TTK subnetwork	0.76148162	1.202079741
GO:0015908	fatty acid transport	0.70517581	1.202086231
ENSG00000168264	IRF2BP2 subnetwork	0.70837512	1.202089104
KEGG_BLADDER_CANCER	KEGG_BLADDER_CANCER	0.7025928	1.202093754
ENSG00000148925	BTBD10 subnetwork	0.70815554	1.202095601
GO:0016876	ligase activity, forming aminoacyl-tRNA and related compo	0.71534708	1.202098102
MP:0003564	abnormal insulin secretion	0.78104694	1.202103049
ENSG00000123066	MED13L subnetwork	0.70639465	1.20211781
ENSG00000158874	APOA2 subnetwork	0.70810776	1.202118938
MP:0008395	abnormal osteoblast differentiation	0.75882472	1.202119377
MP:0010900	abnormal pulmonary interalveolar septum morphology	0.70327871	1.20212086
GO:0016469	proton-transporting two-sector ATPase complex	0.72467884	1.202123334
GO:0006085	acetyl-CoA biosynthetic process	0.70499052	1.20212729
MP:0006386	absent somites	0.78281857	1.202130115
REACTOME_RNA_POLYMERAS	REACTOME_RNA_POLYMERASE_II_TRANSCRIPTION_PRE:IN	0.75874003	1.202130421
GO:0006198	cAMP catabolic process	0.78241064	1.20213101
MP:0002840	abnormal lens fiber morphology	0.71651829	1.202134947
GO:0031418	L-ascorbic acid binding	0.71120306	1.202138423
ENSG00000204086	RPA4 subnetwork	0.71022922	1.202141377
GO:0002065	columnar/cuboidal epithelial cell differentiation	0.7614396	1.202144628
MP:0004813	absent linear vestibular evoked potential	0.70385039	1.202148415
GO:0004197	cysteine-type endopeptidase activity	0.72461473	1.202151813
ENSG00000067177	PHKA1 subnetwork	0.71012606	1.202153138
ENSG00000180914	OXTR subnetwork	0.71006651	1.202153386
ENSG00000169271	HSPB3 subnetwork	0.76206558	1.20215378
GO:0015081	sodium ion transmembrane transporter activity	0.70493545	1.202156522
GO:0070059	intrinsic apoptotic signaling pathway in response to endopl	0.76216499	1.202158932
MP:0009356	decreased liver triglyceride level	0.76137815	1.202161026
GO:0008630	DNA damage response, signal transduction resulting in indu	0.70512191	1.202161818
ENSG00000154889	MPPE1 subnetwork	0.78216942	1.202163184
ENSG00000182899	RPL35A subnetwork	0.72415111	1.202164576
ENSG00000177200	CHD9 subnetwork	0.70846466	1.202175418
REACTOME_TRAFFICKING_OF_	REACTOME_TRAFFICKING_OF_AMPA_RECEPTORS	0.78152143	1.202175512
ENSG00000129083	COPB1 subnetwork	0.70410698	1.202176689
ENSG00000100253	MIOX subnetwork	0.70361429	1.202178206
GO:0046689	response to mercury ion	0.76082183	1.202178837
ENSG00000159593	NAE1 subnetwork	0.72501456	1.202179067
ENSG00000124641	MED20 subnetwork	0.7607231	1.202179072
KEGG_HUNTINGTONS_DISEAS	KEGG_HUNTINGTONS_DISEASE	0.71185733	1.202182654
MP:0000069	kyphoscoliosis	0.71107968	1.202190662
ENSG00000138696	BMPRI1B subnetwork	0.72256756	1.202191641
REACTOME_AMINO_ACID_ANI	REACTOME_AMINO_ACID_AND_OLIGOPEPTIDE_SLC_TRAN	0.70836479	1.202199007
ENSG00000169509	CRCT1 subnetwork	0.71100048	1.202202415
REACTOME_METABOLISM_OF_	REACTOME_METABOLISM_OF_WATER:SOLUBLE_VITAMIN:	0.71090807	1.202202669
GO:0009378	four-way junction helicase activity	0.70489357	1.202203154
REACTOME_TRANSPORT_OF_I	REACTOME_TRANSPORT_OF_INORGANIC_CATIONSANION:	0.72454607	1.20220854
GO:0035194	posttranscriptional gene silencing by RNA	0.70882928	1.202214788
ENSG00000088038	CNOT3 subnetwork	0.72519782	1.202218083
GO:0030317	sperm motility	0.7810421	1.20221895
GO:2000756	regulation of peptidyl-lysine acetylation	0.72393418	1.202221845
ENSG00000095319	NUP188 subnetwork	0.72248401	1.202225872
ENSG00000161040	FBXL13 subnetwork	0.76131825	1.202225935
REACTOME_FORMATION_OF_	REACTOME_FORMATION_OF_ATP_BY_CHEMIOSMOTIC_CC	0.71001413	1.202228492

GO:0006814	sodium ion transport	0.78281053	1.202235282
GO:0016875	ligase activity, forming carbon-oxygen bonds	0.71534708	1.202235563
GO:0022625	cytosolic large ribosomal subunit	0.71118141	1.202236403
ENSG00000136149	ENSG00000136149 subnetwork	0.70326731	1.202237331
REACTOME_BIOLOGICAL_OXID	REACTOME_BIOLOGICAL_OXIDATIONS	0.78094689	1.202240219
MP:0006085	myocardial necrosis	0.76068096	1.202244039
REACTOME_RNA_POLYMERAS	REACTOME_RNA_POLYMERASE_II_HIV:1_PROMOTER_ESCAPE	0.75874003	1.202260437
GO:0005771	multivesicular body	0.71201503	1.202262807
ENSG00000103154	NECAB2 subnetwork	0.70383782	1.202270616
MP:0000111	cleft palate	0.72452163	1.202276579
GO:0000287	magnesium ion binding	0.70439958	1.202280376
ENSG00000196150	ZNF250 subnetwork	0.70408268	1.202281435
ENSG00000038274	MAT2B subnetwork	0.70400128	1.202293312
MP:0001606	impaired hematopoiesis	0.70449237	1.202297517
GO:0010718	positive regulation of epithelial to mesenchymal transition	0.72414951	1.202300475
REACTOME_Glutamate_Bind	REACTOME_Glutamate_Binding_Activation_of_Amp	0.78152143	1.202301871
KEGG_VASOPRESSIN_REGULA	KEGG_VASOPRESSIN_REGULATED_WATER_REABSORPTION	0.7827635	1.202303736
GO:0007051	spindle organization	0.7759539	1.202312169
ENSG00000135047	CTSL1 subnetwork	0.76130023	1.202312419
ENSG00000179776	CDH5 subnetwork	0.70989275	1.202315401
GO:0000082	G1/S transition of mitotic cell cycle	0.72373105	1.202318742
ENSG00000180616	SSTR2 subnetwork	0.72408672	1.202323347
ENSG00000132561	MATN2 subnetwork	0.714761	1.202323452
ENSG00000093000	NUP50 subnetwork	0.71467823	1.202323718
GO:0007264	small GTPase mediated signal transduction	0.78140416	1.202328638
GO:0046697	decidualization	0.72246242	1.202339413
ENSG00000064999	ANKS1A subnetwork	0.72392152	1.202340835
REACTOME_METABOLISM_OF	REACTOME_METABOLISM_OF_VITAMINS_AND_COFACTORS	0.71090807	1.202340964
MP:0003992	increased mortality induced by ionizing radiation	0.725444	1.202341722
ENSG00000139567	ACVRL1 subnetwork	0.70488366	1.202342572
ENSG00000038427	VCAN subnetwork	0.70999809	1.20234393
GO:2000142	regulation of transcription initiation, DNA-dependent	0.71067651	1.202347526
ENSG00000107282	APBA1 subnetwork	0.72519152	1.20234816
GO:0008333	endosome to lysosome transport	0.72449343	1.202350282
ENSG00000196374	HIST1H2BM subnetwork	0.70436571	1.202356082
ENSG00000173744	AGFG1 subnetwork	0.76067033	1.202362969
GO:0006370	mRNA capping	0.78093513	1.202366677
GO:0043624	cellular protein complex disassembly	0.71462986	1.202369777
GO:0008237	metallopeptidase activity	0.72282765	1.202372325
GO:0004812	aminoacyl-tRNA ligase activity	0.71534708	1.202373056
MP:0009406	decreased skeletal muscle fiber number	0.71085399	1.202375748
ENSG00000047936	ROS1 subnetwork	0.71077044	1.202376021
GO:0007017	microtubule-based process	0.70326694	1.202377078
ENSG00000130810	PPAN subnetwork	0.70317953	1.202377354
ENSG00000155974	GRIP1 subnetwork	0.7048372	1.202377639
ENSG00000123143	PKN1 subnetwork	0.77592174	1.202381204
ENSG00000185637	ENSG00000185637 subnetwork	0.75998443	1.20238121
MP:0005410	abnormal fertilization	0.72292355	1.202383379
GO:0031214	biomineral tissue development	0.76125959	1.20238814
REACTOME_RNA_POLYMERAS	REACTOME_RNA_POLYMERASE_II_PROMOTER_ESCAPE	0.75874003	1.202390481
REACTOME_RESPIRATORY_ELE	REACTOME_RESPIRATORY_ELECTRON_TRANSPORT	0.78136602	1.202391967
GO:0010885	regulation of cholesterol storage	0.70382527	1.202392845
ENSG00000151208	DLG5 subnetwork	0.77616218	1.202396318

KEGG_DNA_REPLICATION	KEGG_DNA_REPLICATION	0.7098453	1.202402074
REACTOME_PKA_ACTIVATION	REACTOME_PKA_ACTIVATION_IN_GLU	0.71218481	1.20240611
ENSG00000187778	MCRS1 subnetwork	0.7599264	1.202408467
ENSG00000117707	PROX1 subnetwork	0.75984451	1.202408728
ENSG00000089250	NOS1 subnetwork	0.78088882	1.202409005
ENSG00000100504	PYGL subnetwork	0.77635087	1.202411678
ENSG00000100941	PNN subnetwork	0.78150621	1.202412488
GO:0006352	transcription initiation, DNA-dependent	0.70307241	1.202412791
ENSG00000112773	FAM46A subnetwork	0.7254157	1.202420993
ENSG00000125354	SEPT6 subnetwork	0.77673321	1.202421231
ENSG00000105737	GRIK5 subnetwork	0.7231523	1.202428119
ENSG00000048828	FAM120A subnetwork	0.7605296	1.202428232
GO:0015298	solute:cation antiporter activity	0.70297763	1.202430515
ENSG00000107625	DDX50 subnetwork	0.76061629	1.202433366
GO:0006026	aminoglycan catabolic process	0.77657904	1.202442893
GO:0008278	cohesin complex	0.70957178	1.202443522
MP:0000137	abnormal vertebrae morphology	0.76107626	1.202448231
REACTOME_SIGNAL_TRANSDU	REACTOME_SIGNAL_TRANSDUCTION_BY_L1	0.7236437	1.202449372
GO:0016891	endoribonuclease activity, producing 5'-phosphomonoester	0.76044586	1.202450081
ENSG00000129993	CBFA2T3 subnetwork	0.70915977	1.202450698
MP:0003866	abnormal defecation	0.72446926	1.202452254
GO:0015293	symporter activity	0.72373049	1.202454751
MP:0008535	enlarged lateral ventricles	0.75976026	1.202463001
MP:0003917	increased kidney weight	0.72245202	1.20246431
GO:0007050	cell cycle arrest	0.72390192	1.202465506
MP:0001602	impaired myelopoiesis	0.75961158	1.202468936
GO:0001673	male germ cell nucleus	0.71332076	1.202471614
GO:0006984	ER-nucleus signaling pathway	0.71447331	1.20247366
GO:0071103	DNA conformation change	0.77631779	1.202475405
ENSG00000107130	NCS1 subnetwork	0.71532213	1.202476267
ENSG00000197616	MYH6 subnetwork	0.70316328	1.202476456
MP:0000690	absent spleen	0.71524898	1.20247655
GO:0005001	transmembrane receptor protein tyrosine phosphatase activity	0.77589081	1.202476715
MP:0003878	abnormal ear physiology	0.71453285	1.202484828
ENSG00000140332	TLE3 subnetwork	0.70926346	1.202485009
GO:0060260	regulation of transcription initiation from RNA polymerase II	0.71067651	1.202485902
ENSG00000071626	DAZAP1 subnetwork	0.70482779	1.20248811
ENSG00000149970	CNKSR2 subnetwork	0.77685906	1.202489692
GO:0019903	protein phosphatase binding	0.71460548	1.202490268
GO:0052745	inositol phosphate phosphatase activity	0.76124652	1.202490835
ENSG00000142856	ITGB3BP subnetwork	0.77667711	1.202495506
GO:2000104	negative regulation of DNA-dependent DNA replication	0.77693983	1.2025
GO:0043403	skeletal muscle tissue regeneration	0.77613026	1.202502381
REACTOME_SIGNAL_ATTENUA	REACTOME_SIGNAL_ATTENUATION	0.7150243	1.202506008
GO:0009067	aspartate family amino acid biosynthetic process	0.72311977	1.202507642
ENSG00000133313	CNDP2 subnetwork	0.78087568	1.202509206
GO:0060765	regulation of androgen receptor signaling pathway	0.76041272	1.202509715
ENSG00000212874	ENSG00000212874 subnetwork	0.70477803	1.202511601
REACTOME_DNA_REPLICATION	REACTOME_DNA_REPLICATION	0.71053258	1.202515253
MP:0000109	abnormal parietal bone morphology	0.71344104	1.202517202
REACTOME_HIV:1_TRANSCRIP	REACTOME_HIV:1_TRANSCRIPTION_INITIATION	0.75874003	1.202520554
REACTOME_ACTIVATION_OF_1	REACTOME_ACTIVATION_OF_THE_PRE:REPLICATIVE_COM	0.70954191	1.202536023
ENSG00000100353	EIF3D subnetwork	0.70984489	1.202540615

MP:0002239	abnormal nasal septum morphology	0.77571259	1.202541027
GO:0044257	cellular protein catabolic process	0.76019434	1.202542922
ENSG00000164708	PGAM2 subnetwork	0.72333861	1.202546689
ENSG00000154174	TOMM70A subnetwork	0.76034705	1.202547771
ENSG00000132196	HSD17B7 subnetwork	0.77656858	1.202548916
GO:0000375	RNA splicing, via transesterification reactions	0.7152188	1.202551196
ENSG00000074800	ENO1 subnetwork	0.77846712	1.202553551
MP:0004111	abnormal coronary artery morphology	0.71254021	1.202554535
GO:0043434	response to peptide hormone stimulus	0.72569788	1.202555568
GO:0051972	regulation of telomerase activity	0.77579474	1.202556638
ENSG00000088320	REM1 subnetwork	0.71804016	1.202558696
MP:0003883	enlarged stomach	0.72243189	1.202560907
ENSG00000169891	REPS2 subnetwork	0.7597502	1.202565903
ENSG00000165917	RAPSN subnetwork	0.72363776	1.202568454
KEGG_SULFUR_METABOLISM	KEGG_SULFUR_METABOLISM	0.7244567	1.202582505
ENSG00000133059	DSTYK subnetwork	0.71497794	1.202586404
MP:0000063	decreased bone mineral density	0.76123686	1.202588159
GO:0019320	hexose catabolic process	0.71064797	1.202589779
REACTOME_RNA_POL_II_CTD_	REACTOME_RNA_POL_II_CTD_PHOSPHORYLATION_AND_II	0.71330565	1.202598073
ENSG00000145794	MEGF10 subnetwork	0.77877626	1.202600211
GO:0030660	Golgi-associated vesicle membrane	0.72358407	1.202602693
GO:0019198	transmembrane receptor protein phosphatase activity	0.77589081	1.202604001
ENSG00000176601	YSK4 subnetwork	0.70947769	1.202605488
ENSG00000177156	TALDO1 subnetwork	0.72235701	1.202606528
ENSG00000168398	BDKRB2 subnetwork	0.72563998	1.202606635
ENSG00000105327	BBC3 subnetwork	0.7144649	1.202611385
GO:0006662	glycerol ether metabolic process	0.7143855	1.202617411
ENSG00000167840	ZNF232 subnetwork	0.77545304	1.202621267
ENSG00000078747	ITCH subnetwork	0.71250992	1.202629464
MP:0003982	increased cholesterol level	0.78087077	1.202630471
GO:0007320	insemination	0.77843292	1.202638244
ENSG00000164342	TLR3 subnetwork	0.76032378	1.202639819
ENSG00000196549	MME subnetwork	0.71358605	1.202648779
GO:0042403	thyroid hormone metabolic process	0.77831577	1.202649356
REACTOME_RNA_POLYMERASE_II_TRANSCRIPTION_INITIA	REACTOME_RNA_POLYMERASE_II_TRANSCRIPTION_INITIA	0.75874003	1.202650655
ENSG00000198712	MT-CO2 subnetwork	0.70477803	1.20265112
ENSG00000067082	KLF6 subnetwork	0.77837521	1.202654354
ENSG00000103051	COG4 subnetwork	0.71520289	1.202660183
ENSG00000135213	POM121C subnetwork	0.77570871	1.202663066
GO:0000301	retrograde transport, vesicle recycling within Golgi	0.72352429	1.202665233
GO:0019439	aromatic compound catabolic process	0.70983596	1.202673427
MP:0003313	abnormal locomotor activation	0.77734229	1.202673571
GO:0021536	diencephalon development	0.77873054	1.202674333
GO:0050892	intestinal absorption	0.78079107	1.202678102
ENSG00000105695	MAG subnetwork	0.72631176	1.202700722
GO:0002688	regulation of leukocyte chemotaxis	0.70945339	1.202703793
ENSG00000164733	CTSB subnetwork	0.78063536	1.202704978
GO:0070306	lens fiber cell differentiation	0.77717804	1.202705845
GO:0021955	central nervous system neuron axonogenesis	0.7132723	1.202707353
GO:0006379	mRNA cleavage	0.71370156	1.202717267
GO:0008235	metalloexopeptidase activity	0.77898354	1.202721232
ENSG00000100522	GNPNAT1 subnetwork	0.77561808	1.202721593
ENSG00000173546	CSPG4 subnetwork	0.78028945	1.202727177

GO:0000075	cell cycle checkpoint	0.77917936	1.202731203
ENSG00000107819	SFXN3 subnetwork	0.71247435	1.202733119
ENSG00000176749	CDK5R1 subnetwork	0.77726279	1.202737265
ENSG00000179588	ZFPM1 subnetwork	0.72234929	1.202742831
GO:0019941	modification-dependent protein catabolic process	0.78075424	1.20274679
GO:0031572	G2/M transition DNA damage checkpoint	0.77908579	1.202747311
GO:0007176	regulation of epidermal growth factor-activated receptor a	0.78056046	1.202747368
GO:0051346	negative regulation of hydrolase activity	0.75857419	1.202748918
ENSG00000160844	GATS subnetwork	0.71438334	1.202749456
GO:0010035	response to inorganic substance	0.78039225	1.20276374
ENSG00000174175	SELP subnetwork	0.70981502	1.202765933
ENSG00000168061	SAC3D1 subnetwork	0.72625231	1.202768693
MP:0000079	abnormal basioccipital bone morphology	0.77830807	1.202771033
ENSG00000165966	PDZRN4 subnetwork	0.71405666	1.202773321
GO:0007040	lysosome organization	0.78047114	1.20277924
REACTOME_RNA_POLYMERAS	REACTOME_RNA_POLYMERASE_II_TRANSCRIPTION_INITIA	0.75874003	1.202780783
GO:0005247	voltage-gated chloride channel activity	0.77751377	1.202784235
ENSG00000127334	DYRK2 subnetwork	0.77871796	1.202795949
ENSG00000157191	NECAP2 subnetwork	0.71323298	1.202799449
MP:0004505	decreased renal glomerulus number	0.71312204	1.202799771
MP:0002608	increased hematocrit	0.714215	1.202813109
MP:0005480	increased circulating triiodothyronine level	0.72599791	1.202826038
GO:0000776	kinetochore	0.78028345	1.202832772
ENSG00000114573	ATP6V1A subnetwork	0.71305128	1.202834519
ENSG00000110169	HPX subnetwork	0.77827957	1.202834671
GO:0044241	lipid digestion	0.75855655	1.202835805
ENSG00000109475	RPL34 subnetwork	0.71297063	1.202840583
ENSG00000186834	HEXIM1 subnetwork	0.78013791	1.202843901
GO:0090398	cellular senescence	0.75562093	1.202851401
ENSG00000058600	POLR3E subnetwork	0.71286172	1.202852388
GO:0042402	cellular biogenic amine catabolic process	0.77797406	1.20285669
GO:0060429	epithelium development	0.72650627	1.20285827
GO:0046459	short-chain fatty acid metabolic process	0.75870636	1.202862244
GO:0010812	negative regulation of cell-substrate adhesion	0.77790315	1.202862273
GO:0000413	protein peptidyl-prolyl isomerization	0.72622144	1.202870517
REACTOME_TRANSPORT_OF_M	REACTOME_TRANSPORT_OF_MATURE_TRANSCRIPT_TO_C	0.75462731	1.202876876
GO:0030545	receptor regulator activity	0.77821123	1.202877204
MP:0010551	abnormal coronary vessel morphology	0.72234875	1.202879166
GO:0003777	microtubule motor activity	0.71396994	1.202882852
KEGG_STEROID_HORMONE_BI	KEGG_STEROID_HORMONE_BIOSYNTHESIS	0.75412318	1.202884197
MP:0010763	abnormal hematopoietic stem cell physiology	0.72674388	1.202885808
MP:0003308	abnormal cochlear sensory epithelium morphology	0.72663775	1.202886133
ENSG00000126883	NUP214 subnetwork	0.7143817	1.202887259
GO:0001823	mesonephros development	0.77809416	1.202888068
GO:0032570	response to progesterone stimulus	0.77938835	1.202889076
GO:0006297	nucleotide-excision repair, DNA gap filling	0.71404521	1.202893983
ENSG00000173145	NOC3L subnetwork	0.71389063	1.202894646
ENSG00000130706	ADRM1 subnetwork	0.77783966	1.202899546
MP:0004725	decreased platelet serotonin level	0.718361	1.202911349
ENSG00000136944	LMX1B subnetwork	0.75555984	1.202911461
ENSG00000159720	ATP6V0D1 subnetwork	0.72066787	1.20291411
ENSG00000130041	ENSG00000130041 subnetwork	0.78009978	1.202923207
MP:0000880	decreased Purkinje cell number	0.71281236	1.202927333

ENSG00000179889	PDXDC1 subnetwork	0.72783275	1.202937866
ENSG00000178585	CTNNBIP1 subnetwork	0.77777786	1.202942109
GO:0003333	amino acid transmembrane transport	0.78027292	1.202943655
MP:0008582	short photoreceptor inner segment	0.72616566	1.202949803
GO:0032330	regulation of chondrocyte differentiation	0.72194668	1.20295452
GO:0060065	uterus development	0.72776598	1.202960711
GO:0008543	fibroblast growth factor receptor signaling pathway	0.7796972	1.202961948
GO:0071696	ectodermal placode development	0.75855619	1.20296601
MP:0010810	increased type II pneumocyte number	0.75452001	1.202975413
GO:0071779	G1/S transition checkpoint	0.72081082	1.202976258
GO:0016881	acid-amino acid ligase activity	0.77953037	1.202978387
ENSG00000133706	LARS subnetwork	0.75513463	1.202978585
ENSG00000155657	TTN subnetwork	0.75506543	1.202984344
ENSG00000127955	GNAI1 subnetwork	0.75461967	1.202985968
ENSG00000187239	FNBP1 subnetwork	0.72233141	1.20298719
GO:0006386	termination of RNA polymerase III transcription	0.75531358	1.202988806
ENSG00000113068	PFDN1 subnetwork	0.71832419	1.202997151
GO:0060896	neural plate pattern specification	0.77996229	1.202997893
ENSG00000139726	DENR subnetwork	0.75537099	1.202999348
GO:0035337	fatty-acyl-CoA metabolic process	0.75411532	1.203009688
GO:0045861	negative regulation of proteolysis	0.75437732	1.203014146
ENSG00000115008	IL1A subnetwork	0.77774789	1.203016376
KEGG_HEDGEHOG_SIGNALING	KEGG_HEDGEHOG_SIGNALING_PATHWAY	0.75554218	1.203020426
KEGG_RETINOL_METABOLISM	KEGG_RETINOL_METABOLISM	0.7579963	1.203022097
MP:0000013	abnormal adipose tissue distribution	0.77981208	1.203024874
GO:0071774	response to fibroblast growth factor stimulus	0.75500936	1.203028161
MP:0000285	abnormal heart valve morphology	0.72093976	1.203032712
ENSG00000108504	ENSG00000108504 subnetwork	0.75445233	1.203035578
GO:0002504	antigen processing and presentation of peptide or polysacc	0.72064845	1.203039427
ENSG00000128245	YWHAH subnetwork	0.72749903	1.203046514
MP:0001486	abnormal startle reflex	0.75431667	1.203047122
GO:0031055	chromatin remodeling at centromere	0.75795925	1.203049507
ENSG00000177954	RPS27 subnetwork	0.78009978	1.203049937
REACTOME_G1S_TRANSITION	REACTOME_G1S_TRANSITION	0.78006165	1.203050258
ENSG00000113555	PCDH12 subnetwork	0.77993023	1.203050901
GO:0000178	exosome (RNase complex)	0.72717555	1.203053521
GO:0032612	interleukin-1 production	0.72106211	1.203060761
GO:0034599	cellular response to oxidative stress	0.7548512	1.203061446
GO:0005504	fatty acid binding	0.77968886	1.203078221
MP:0008898	abnormal acrosome morphology	0.72191507	1.203079628
MP:0009748	abnormal behavioral response to addictive substance	0.72775341	1.203084891
GO:0060788	ectodermal placode formation	0.75855619	1.203096243
MP:0001410	head bobbing	0.72231926	1.203100907
ENSG00000070182	SPTB subnetwork	0.75552183	1.203102249
ENSG00000064490	RFXANK subnetwork	0.72815214	1.20310566
GO:0006385	transcription elongation from RNA polymerase III promoter	0.75531358	1.203119565
ENSG00000106638	TBL2 subnetwork	0.75780222	1.203120936
GO:0031369	translation initiation factor binding	0.72769101	1.203124648
MP:0006358	absent pinna reflex	0.75340405	1.203127043
GO:0022603	regulation of anatomical structure morphogenesis	0.75791807	1.203131094
ENSG00000100380	ST13 subnetwork	0.71862599	1.203138886
GO:0060600	dichotomous subdivision of an epithelial terminal unit	0.72116874	1.203139905
GO:0046949	fatty-acyl-CoA biosynthetic process	0.75411532	1.203140649

ENSG00000147274	RBMX subnetwork	0.72746843	1.2031426
ENSG00000162688	AGL subnetwork	0.72802612	1.203145751
ENSG00000103326	SOLH subnetwork	0.7281039	1.203151024
GO:0022616	DNA strand elongation	0.71974526	1.203151308
ENSG00000101152	DNAJC5 subnetwork	0.72762729	1.203153153
GO:0070509	calcium ion import	0.72163004	1.203154789
GO:0044344	cellular response to fibroblast growth factor stimulus	0.75500936	1.203158982
ENSG00000206181	TCEB3B subnetwork	0.75787018	1.20316394
ENSG00000104177	MYEF2 subnetwork	0.7221802	1.203163983
GO:0050661	NADP binding	0.72734745	1.203171474
GO:0072509	divalent inorganic cation transmembrane transporter activi	0.72064816	1.203176136
GO:2000178	negative regulation of neural precursor cell proliferation	0.72717315	1.203183457
MP:0002282	abnormal trachea morphology	0.75258196	1.203184991
GO:0006000	fructose metabolic process	0.7222775	1.203197641
REACTOME_MRNA_CAPPING	REACTOME_MRNA_CAPPING	0.75236893	1.2032024
GO:0010719	negative regulation of epithelial to mesenchymal transition	0.72190788	1.203204765
ENSG00000130288	ENSG00000130288 subnetwork	0.71969048	1.203208556
GO:0071697	ectodermal placode morphogenesis	0.75855619	1.203226505
ENSG00000090520	DNAJB11 subnetwork	0.75407982	1.203228089
ENSG00000068394	GPKOW subnetwork	0.72153795	1.203229285
ENSG00000159166	LAD1 subnetwork	0.72056119	1.203233322
ENSG00000091428	RAPGEF4 subnetwork	0.75777922	1.203235071
MP:0005100	abnormal choroid pigmentation	0.75339191	1.203236352
ENSG00000033011	ALG1 subnetwork	0.72713849	1.203245802
GO:0048232	male gamete generation	0.75769559	1.203246261
ENSG00000143614	GATAD2B subnetwork	0.7216125	1.203251617
MP:0001324	abnormal eye pigmentation	0.72745435	1.203255604
ENSG00000135916	ITM2C subnetwork	0.72708554	1.203263075
GO:0050716	positive regulation of interleukin-1 secretion	0.75401809	1.203266551
ENSG00000115286	NDUFS7 subnetwork	0.75222028	1.203274037
ENSG00000161016	RPL8 subnetwork	0.72188616	1.20329022
ENSG00000130725	UBE2M subnetwork	0.72028452	1.203291643
ENSG00000059573	ALDH18A1 subnetwork	0.71879343	1.203292322
GO:0000982	RNA polymerase II core promoter proximal region sequenci	0.75234054	1.203295504
ENSG00000149503	INCENP subnetwork	0.7189485	1.203297267
ENSG00000075292	ZNF638 subnetwork	0.72133715	1.20330419
ENSG00000100568	VTI1B subnetwork	0.75624526	1.203306189
ENSG00000173402	DAG1 subnetwork	0.71992996	1.203310204
ENSG00000016490	CLCA1 subnetwork	0.75258179	1.203316243
ENSG00000099795	NDUFB7 subnetwork	0.71924558	1.203318912
ENSG00000102007	PLP2 subnetwork	0.72150644	1.203320468
ENSG00000143401	ANP32E subnetwork	0.75251597	1.20332206
GO:0090002	establishment of protein localization in plasma membrane	0.71967364	1.203322713
GO:0005911	cell-cell junction	0.75288106	1.203326063
MP:0001391	abnormal tail movements	0.75833744	1.203330445
MP:0002666	increased circulating aldosterone level	0.75853618	1.203340552
GO:0030530	heterogeneous nuclear ribonucleoprotein complex	0.71909126	1.203342444
MP:0006395	abnormal epiphyseal plate morphology	0.75843881	1.203346329
MP:0010103	small thoracic cage	0.75612586	1.203350348
REACTOME_TRANSCRIPTION:C	REACTOME_TRANSCRIPTION:COUPLED_NER_TC:NER	0.71940576	1.203352305
ENSG00000105426	PTPRS subnetwork	0.72185717	1.203353001
ENSG00000198625	MDM4 subnetwork	0.72055987	1.203364401
GO:0008376	acetylgalactosaminyltransferase activity	0.75339064	1.20336748

GO:0007283	spermatogenesis	0.75769559	1.203376694
MP:0002116	abnormal craniofacial bone morphology	0.75283444	1.203380958
ENSG00000152256	PDK1 subnetwork	0.72145267	1.203383288
GO:0045495	pole plasm	0.75221313	1.203383541
GO:0050718	positive regulation of interleukin-1 beta secretion	0.75401809	1.203397582
ENSG00000179603	GRM8 subnetwork	0.72891415	1.203406791
GO:0043531	ADP binding	0.719208	1.203410385
GO:0009148	pyrimidine nucleoside triphosphate biosynthetic process	0.7576444	1.203420425
ENSG00000100883	SRP54 subnetwork	0.72027069	1.203428474
MP:0001695	abnormal gastrulation	0.71894395	1.203428637
GO:0006633	fatty acid biosynthetic process	0.7562375	1.203431426
ENSG00000174989	FBXW8 subnetwork	0.7566626	1.20343499
ENSG00000213588	ZBTB9 subnetwork	0.71966891	1.203448276
ENSG00000164403	SHROOM1 subnetwork	0.75164558	1.20345675
ENSG00000135823	STX6 subnetwork	0.71937435	1.20346653
MP:0000120	malocclusion	0.75611524	1.203470186
GO:0008637	apoptotic mitochondrial changes	0.75314535	1.203477976
ENSG00000176124	DLEU1 subnetwork	0.75338341	1.203482289
GO:0060411	cardiac septum morphogenesis	0.72054353	1.203484142
ENSG00000102109	PCSK1N subnetwork	0.75758135	1.203485851
ENSG00000155897	ADCY8 subnetwork	0.72888181	1.203485888
GO:0090150	establishment of protein localization in membrane	0.75399549	1.203512307
GO:0043186	P granule	0.75221313	1.2035149
ENSG00000086102	NFX1 subnetwork	0.7196329	1.20352265
REACTOME_FORMATION_OF_REACTOME_FORMATION_OF_INCISION_COMPLEX_IN_GG:		0.72872669	1.203526038
ENSG00000122194	PLG subnetwork	0.75662896	1.203527624
GO:0035195	gene silencing by miRNA	0.75310699	1.203543779
ENSG00000178252	WDR6 subnetwork	0.75162875	1.203555434
ENSG00000142168	SOD1 subnetwork	0.72027002	1.203565336
GO:0007090	regulation of S phase of mitotic cell cycle	0.75752929	1.203578399
ENSG00000093167	LRRFIP2 subnetwork	0.75649922	1.203582673
ENSG00000152578	GRIA4 subnetwork	0.72885015	1.203593117
ENSG00000168385	SEPT2 subnetwork	0.75396069	1.203599826
GO:0016853	isomerase activity	0.75387483	1.203600218
ENSG00000213905	ENSG00000213905 subnetwork	0.75378275	1.20360061
GO:0017134	fibroblast growth factor binding	0.75337206	1.203602572
GO:0031589	cell-substrate adhesion	0.72053151	1.203603911
ENSG00000198822	GRM3 subnetwork	0.75195929	1.203614326
MP:0002730	head shaking	0.72024252	1.203616924
ENSG00000100297	MCM5 subnetwork	0.75659032	1.203625706
ENSG00000176476	ENSG00000176476	0.75185797	1.203631102
GO:0060293	germ plasm	0.75221313	1.203646288
GO:0030286	dynein complex	0.75206391	1.203657605
ENSG00000083857	FAT1 subnetwork	0.75731716	1.203660918
REACTOME_DUAL_INCISION_REACTOME_DUAL_INCISION_REACTION_IN_GG:NER		0.72872669	1.203661417
MP:0005608	cardiac interstitial fibrosis	0.72857967	1.203684743
GO:0030334	regulation of cell migration	0.7516253	1.203686913
ENSG00000123612	ACVR1C subnetwork	0.75749406	1.203687236
ENSG00000148516	ZEB1 subnetwork	0.75723225	1.20369386
ENSG00000164077	MON1A subnetwork	0.7286682	1.203723703
MP:0008719	impaired neutrophil recruitment	0.75336936	1.203733784
GO:0005086	ARF guanyl-nucleotide exchange factor activity	0.75720629	1.203753933
ENSG00000091483	FH subnetwork	0.75745666	1.203774403

GO:0060601	lateral sprouting from an epithelium	0.75161817	1.203812958
ENSG00000197153	HIST1H3J subnetwork	0.75108002	1.203836904
ENSG00000167552	TUBA1A subnetwork	0.7511887	1.20384195
ENSG00000127914	AKAP9 subnetwork	0.75718238	1.203846571
ENSG00000164163	ABCE1 subnetwork	0.7515265	1.203851617
REACTOME_CREB_PHOSPHOR	REACTOME_CREB_PHOSPHORYLATION_THROUGH_THE_AC	0.7292945	1.203901068
GO:0009060	aerobic respiration	0.75714363	1.203933804
MP:0005167	abnormal blood-brain barrier function	0.75149595	1.203933996
MP:0000762	abnormal tongue morphology	0.75139333	1.20395082
ENSG00000196532	HIST1H3C subnetwork	0.75108002	1.203968514
ENSG00000138448	ITGAV subnetwork	0.7295384	1.204068787
ENSG00000182572	HIST1H3I subnetwork	0.75108002	1.204100153
ENSG00000103415	HMOX2 subnetwork	0.72948981	1.204102968
ENSG00000112727	ENSG00000112727 subnetwork	0.75108002	1.204231821
ENSG00000022840	RNF10 subnetwork	0.74560592	1.204310725
ENSG00000196966	HIST1H3E subnetwork	0.75108002	1.204363517
MP:0001299	abnormal eye distance/ position	0.74558733	1.204399295
GO:0015179	L-amino acid transmembrane transporter activity	0.74535433	1.204422293
MP:0000383	abnormal hair follicle orientation	0.74530736	1.204439304
ENSG00000197409	HIST1H3D subnetwork	0.75108002	1.204495242
GO:0001968	fibronectin binding	0.74556657	1.204498899
GO:0020037	heme binding	0.72998791	1.204506631
ENSG00000095485	CWF19L1 subnetwork	0.74492046	1.204535435
GO:0005326	neurotransmitter transporter activity	0.7451299	1.204561983
ENSG00000127022	CANX subnetwork	0.74530006	1.204566487
GO:0051325	interphase	0.74485926	1.204574515
ENSG00000110148	CCKBR subnetwork	0.74753476	1.204580907
GO:0008088	axon cargo transport	0.74524364	1.204589026
GO:0014065	phosphatidylinositol 3-kinase cascade	0.73011882	1.204590403
ENSG00000122034	GTF3A subnetwork	0.74736676	1.204626374
ENSG00000198366	HIST1H3A subnetwork	0.75108002	1.204626996
GO:0043395	heparan sulfate proteoglycan binding	0.74727404	1.204632377
GO:0042588	zymogen granule	0.74507999	1.204634119
GO:0009314	response to radiation	0.74952671	1.204636125
GO:0001974	blood vessel remodeling	0.74653822	1.204641954
GO:0001786	phosphatidylserine binding	0.73030889	1.20465678
GO:0006414	translational elongation	0.74751701	1.204658317
ENSG00000168454	TXNDC2 subnetwork	0.75010851	1.204682366
GO:0071695	anatomical structure maturation	0.74484991	1.204690773
GO:0033176	proton-transporting V-type ATPase complex	0.73132687	1.204695389
GO:0006644	phospholipid metabolic process	0.74948602	1.204702401
GO:0006206	pyrimidine base metabolic process	0.74723455	1.204715322
ENSG00000198744	ENSG00000198744 subnetwork	0.73143605	1.204717299
ENSG00000168374	ARF4 subnetwork	0.74747676	1.204719262
GO:0015893	drug transport	0.74970169	1.204728767
KEGG_BASAL_CELL_CARCINOM	KEGG_BASAL_CELL_CARCINOMA	0.74940672	1.204730322
GO:0015991	ATP hydrolysis coupled proton transport	0.74996715	1.204732691
MP:0002622	abnormal cochlear hair cell morphology	0.746501	1.204741474
ENSG00000126821	SGPP1 subnetwork	0.74148714	1.204750831
GO:0046112	nucleobase biosynthetic process	0.75007424	1.20475408
ENSG00000178458	ENSG00000178458 subnetwork	0.75108002	1.204758779
ENSG00000087086	FTL subnetwork	0.74603153	1.204761118
GO:0017069	snRNA binding	0.73163977	1.204766712

GO:0045765	regulation of angiogenesis	0.74982154	1.204783037
GO:0046546	development of primary male sexual characteristics	0.73030852	1.204786517
ENSG00000011243	AKAP8L subnetwork	0.73159741	1.20478968
ENSG00000135441	BLOC1S1 subnetwork	0.7446613	1.204791575
ENSG00000164329	PAPD4 subnetwork	0.74482982	1.204801544
REACTOME_AMINE_COMPOUND_SLC_TRANSPORTERS	REACTOME_AMINE_COMPOUND_SLC_TRANSPORTERS	0.74643169	1.204802509
GO:0045737	positive regulation of cyclin-dependent protein kinase activ	0.73175453	1.204805428
GO:0002762	negative regulation of myeloid leukocyte differentiation	0.7459847	1.204805681
GO:0016528	sarcoplasm	0.7307257	1.204817518
ENSG00000205572	SERF1B subnetwork	0.74926431	1.204819079
ENSG00000125675	GRIA3 subnetwork	0.7472181	1.20482027
ENSG00000114054	PCCB subnetwork	0.73802291	1.204822024
GO:0006403	RNA localization	0.731325	1.204824955
GO:0030512	negative regulation of transforming growth factor beta rec	0.74939204	1.204840478
MP:0005294	abnormal heart ventricle morphology	0.74714348	1.204848285
ENSG00000124006	OBSL1 subnetwork	0.74701417	1.204849351
GO:0090183	regulation of kidney development	0.73090414	1.204850118
GO:0046474	glycerophospholipid biosynthetic process	0.7306874	1.204857367
GO:0015988	energy coupled proton transport, against electrochemical g	0.74996715	1.204864687
REACTOME_AMYLOIDS	REACTOME_AMYLOIDS	0.75081243	1.204864835
MP:0003953	abnormal hormone level	0.74691096	1.204871879
MP:0006107	abnormal fetal atrioventricular canal morphology	0.73086216	1.204873119
GO:0051287	NAD binding	0.74161554	1.204877644
GO:0009108	coenzyme biosynthetic process	0.73188092	1.204877775
ENSG00000173805	HAP1 subnetwork	0.74148313	1.204884262
ENSG00000124693	HIST1H3B subnetwork	0.75108002	1.204890591
GO:0008406	gonad development	0.75092689	1.204891661
ENSG00000131100	ATP6V1E1 subnetwork	0.74465052	1.204902393
ENSG00000205542	TMSB4X subnetwork	0.7312897	1.204904051
REACTOME_PYRIMIDINE_METABOLISM	REACTOME_PYRIMIDINE_METABOLISM	0.74915896	1.204907875
ENSG00000136631	VPS45 subnetwork	0.75032662	1.204911839
REACTOME_SHC1_EVENTS_IN_ERBB4_SIGNALING	REACTOME_SHC1_EVENTS_IN_ERBB4_SIGNALING	0.74711968	1.204925783
ENSG00000148498	PARD3 subnetwork	0.74642341	1.204929577
ENSG00000131931	THAP1 subnetwork	0.74907452	1.20493035
GO:0009156	ribonucleoside monophosphate biosynthetic process	0.74482943	1.204934392
ENSG00000108387	SEPT4 subnetwork	0.75046124	1.204938136
ENSG00000103343	ZNF174 subnetwork	0.73124815	1.204949495
ENSG00000108518	PFN1 subnetwork	0.73801488	1.204950495
ENSG00000172058	SERF1A subnetwork	0.74926431	1.204951201
ENSG00000106636	YKT6 subnetwork	0.74637519	1.204952129
GO:0051591	response to cAMP	0.73106139	1.204956219
MP:0000961	abnormal dorsal root ganglion morphology	0.74787456	1.204964851
GO:0008198	ferrous iron binding	0.74144424	1.204967878
ENSG00000182199	SHMT2 subnetwork	0.73067627	1.204970235
MP:0004358	bowed tibia	0.74133521	1.204979506
GO:0031649	heat generation	0.74456452	1.204980695
GO:0051647	nucleus localization	0.75080424	1.204996716
REACTOME_DOWNREGULATION_OF_ERRB2ERBB3_SIGNAL	REACTOME_DOWNREGULATION_OF_ERRB2ERBB3_SIGNAL	0.74690258	1.2049989
MP:0002059	abnormal seminal vesicle morphology	0.73797062	1.205006676
ENSG00000006638	TBXA2R subnetwork	0.74463473	1.205007721
REACTOME_CREATION_OF_C4_AND_C2_ACTIVATORS	REACTOME_CREATION_OF_C4_AND_C2_ACTIVATORS	0.73119286	1.205017398
MP:0009292	increased inguinal fat pad weight	0.74375379	1.205019881
ENSG00000177189	RPS6KA3 subnetwork	0.75107507	1.205022431

ENSG00000104626	ERI1 subnetwork	0.74819797	1.205023608
GO:0031272	regulation of pseudopodium assembly	0.74904822	1.205040588
ENSG00000186832	KRT16 subnetwork	0.7504443	1.205042707
REACTOME_MITOTIC_M:MG1	REACTOME_MITOTIC_M:MG1_PHASES	0.74857848	1.205043354
ENSG00000094804	CDC6 subnetwork	0.73232618	1.205043712
GO:0045259	proton-transporting ATP synthase complex	0.74636242	1.205051728
ENSG00000126581	BECN1 subnetwork	0.74352837	1.20505469
MP:0003674	oxidative stress	0.73253457	1.205064993
ENSG00000082397	EPB41L3 subnetwork	0.73244069	1.205065561
ENSG00000134871	COL4A2 subnetwork	0.74295112	1.20507022
GO:0046685	response to arsenic-containing substance	0.75069763	1.205074447
REACTOME_TRNA_AMINOACY	REACTOME_TRNA_AMINOACYLATION	0.74402649	1.205078944
KEGG_GLYCOLYSIS_GLUONEC	KEGG_GLYCOLYSIS_GLUONEOGENESIS	0.74368806	1.205081189
GO:0072593	reactive oxygen species metabolic process	0.74898786	1.205085025
MP:0009712	impaired conditioned place preference behavior	0.7430484	1.205091774
ENSG00000184110	EIF3C subnetwork	0.74087402	1.20509367
MP:0000296	absent trabeculae carnea	0.73065482	1.205094361
GO:0006334	nucleosome assembly	0.74456077	1.205097087
MP:0000293	absent myocardial trabeculae	0.74814084	1.205106523
GO:0048644	muscle organ morphogenesis	0.75078921	1.205106732
GO:0032436	positive regulation of proteasomal ubiquitin-dependent pro	0.74183423	1.20510961
GO:2000145	regulation of cell motility	0.74834997	1.205110892
MP:0002796	impaired skin barrier function	0.74322596	1.205112192
ENSG00000089597	GANAB subnetwork	0.74133267	1.205113007
MP:0000343	altered response to myocardial infarction	0.7321895	1.205118287
REACTOME_REGULATION_OF_	REACTOME_REGULATION_OF_PYRUVATE_DEHYDROGENAS	0.74124197	1.205119114
ENSG00000178951	ZBTB7A subnetwork	0.74113741	1.205119681
ENSG00000167565	SERTAD3 subnetwork	0.74436673	1.205120848
ENSG00000159063	ALG8 subnetwork	0.73773055	1.205125779
ENSG00000197766	CFD subnetwork	0.74414408	1.205128064
ENSG00000105971	CAV2 subnetwork	0.74317732	1.205134866
MP:0004564	enlarged myocardial fiber	0.73766389	1.205137482
MP:0005450	abnormal energy expenditure	0.74234357	1.20513998
MP:0003719	abnormal pericyte morphology	0.73225036	1.205140135
GO:0060525	prostate glandular acinus development	0.73797061	1.205140759
MP:0003843	abnormal sagittal suture morphology	0.74081554	1.205144124
MP:0003503	decreased activity of thyroid	0.73781603	1.205147468
ENSG00000198841	KTI12 subnetwork	0.73231591	1.205150768
ENSG00000184270	HIST2H2AB subnetwork	0.74225761	1.205151616
GO:0001530	lipopolysaccharide binding	0.74452475	1.205152819
ENSG00000184752	NDUFA12 subnetwork	0.74447043	1.205153388
MP:0003731	abnormal retinal outer nuclear layer morphology	0.74107382	1.205153497
MP:0009238	coiled sperm flagellum	0.74431984	1.205154525
ENSG00000154134	ROBO3 subnetwork	0.74400144	1.205162323
GO:0016646	oxidoreductase activity, acting on the CH-NH group of don	0.74313459	1.205163074
ENSG00000151148	UBE3B subnetwork	0.74015065	1.205165335
MP:0000164	abnormal cartilage development	0.74856483	1.205170143
ENSG00000197321	SVIL subnetwork	0.7434856	1.205171271
ENSG00000186298	PPP1CC subnetwork	0.7463527	1.205173363
ENSG00000106665	CLIP2 subnetwork	0.73788868	1.205174716
GO:0050921	positive regulation of chemotaxis	0.7433344	1.20517794
ENSG00000204843	DCTN1 subnetwork	0.74248796	1.205178137
GO:0017015	regulation of transforming growth factor beta receptor sign	0.74292835	1.205181376

GO:0051291	protein heterooligomerization	0.74809991	1.205183965
ENSG00000182606	TRAK1 subnetwork	0.74894766	1.205184332
ENSG00000166128	RAB8B subnetwork	0.73300668	1.205190951
MP:0002204	abnormal neurotransmitter level	0.74207493	1.205191499
GO:0070542	response to fatty acid	0.74198901	1.205197609
ENSG00000163743	RCHY1 subnetwork	0.74368411	1.205208794
ENSG00000105402	NAPA subnetwork	0.74343273	1.205221571
ENSG00000094914	AAAS subnetwork	0.7422025	1.205235196
ENSG00000140750	ARHGAP17 subnetwork	0.73765409	1.205238254
ENSG00000164975	SNAPC3 subnetwork	0.73428158	1.205243153
GO:0031669	cellular response to nutrient levels	0.7410569	1.205248282
ENSG00000159176	CSRP1 subnetwork	0.74880049	1.205251317
MP:0002834	decreased heart weight	0.74287746	1.205253844
ENSG00000179562	GCC1 subnetwork	0.74012806	1.205254689
MP:0002109	abnormal limb morphology	0.74888659	1.205256227
ENSG00000206258	TNXB subnetwork	0.73439592	1.205259334
GO:0009071	serine family amino acid catabolic process	0.73310906	1.205274356
MP:0010413	complete atrioventricular septal defect	0.73298349	1.205275538
ENSG00000211895	ENSG00000211895 subnetwork	0.74430759	1.205276521
GO:0032587	ruffle membrane	0.74081191	1.205277747
MP:0009858	abnormal cellular extravasation	0.74855394	1.205285981
MP:0003985	renal fibrosis	0.74400019	1.205295417
MP:0000480	increased rib number	0.74280851	1.205298673
ENSG00000215693	ENSG00000215693 subnetwork	0.73947217	1.205309341
GO:0005929	cilium	0.73295506	1.205326537
ENSG00000137822	TUBGCP4 subnetwork	0.73280349	1.205338936
ENSG00000116285	ERRFI1 subnetwork	0.73426123	1.205349955
MP:0005318	decreased triglyceride level	0.73764297	1.205350184
MP:0005602	decreased angiogenesis	0.74009994	1.20536626
ENSG00000174469	CNTNAP2 subnetwork	0.73845474	1.205372039
GO:0035586	purinergic receptor activity	0.7427688	1.205382233
MP:0002980	abnormal postural reflex	0.73753029	1.205401492
ENSG00000173599	PC subnetwork	0.74004389	1.205405705
GO:0005069	zinc ion homeostasis	0.74080677	1.205411399
GO:0010634	positive regulation of epithelial cell migration	0.73404101	1.205413265
ENSG00000144597	EAF1 subnetwork	0.73759458	1.205423163
ENSG00000170579	DLGAP1 subnetwork	0.73422229	1.205428827
GO:0010165	response to X-ray	0.73294279	1.205433565
KEGG_ALPHA_LINOLENIC_ACID	KEGG_ALPHA_LINOLENIC_ACID_METABOLISM	0.73902041	1.205440702
ENSG00000106278	PTPRZ1 subnetwork	0.73978867	1.205440817
ENSG00000168395	ING5 subnetwork	0.73947217	1.205443235
ENSG00000010818	HIVEP2 subnetwork	0.73988591	1.205451316
GO:0005381	iron ion transmembrane transporter activity	0.73746289	1.205457786
MP:0005424	jerky movement	0.73931418	1.205466667
GO:0060766	negative regulation of androgen receptor signaling pathway	0.7339826	1.205486577
GO:0005200	structural constituent of cytoskeleton	0.74059642	1.205490849
ENSG00000213123	TCTEX1D2 subnetwork	0.74050628	1.205497005
REACTOME_N:GLYCAN_TRIMMING	REACTOME_N:GLYCAN_TRIMMING_IN_THE_ER_AND_CALN	0.73975321	1.205508051
GO:0005801	cis-Golgi network	0.74003674	1.205522869
ENSG00000185479	KRT6B subnetwork	0.73741957	1.205525231
ENSG00000100109	TFIP11 subnetwork	0.73900194	1.205530236
ENSG00000144642	RBMS3 subnetwork	0.73691571	1.205539456
ENSG00000111445	RFC5 subnetwork	0.73420454	1.205541266

GO:0006882	cellular zinc ion homeostasis	0.74080677	1.205545082
ENSG00000100170	SLC5A1 subnetwork	0.73944729	1.205549383
ENSG00000150527	CTAGE5 subnetwork	0.74072209	1.205556788
ENSG00000171914	TLN2 subnetwork	0.7339492	1.205571093
REACTOME_AMINO_ACID_SYN	REACTOME_AMINO_ACID_SYNTHESIS_AND_INTERCONVER	0.73930956	1.20558951
ENSG00000168961	LGALS9 subnetwork	0.73880526	1.205593239
ENSG00000136603	SKIL subnetwork	0.73705956	1.205605706
GO:0043010	camera-type eye development	0.73378363	1.205605908
ENSG00000182752	PAPPA subnetwork	0.73337788	1.205615273
MP:0003954	abnormal Reichert's membrane morphology	0.73873039	1.205616103
GO:0003774	motor activity	0.7405005	1.205625208
MP:0002759	abnormal caudal vertebrae morphology	0.73390251	1.205633251
MP:0000600	liver hypoplasia	0.73974428	1.205641937
GO:0034453	microtubule anchoring	0.73899101	1.205642023
MP:0000443	abnormal snout morphology	0.73740696	1.205642825
GO:0006362	transcription elongation from RNA polymerase I promoter	0.73373971	1.205645703
GO:0006271	DNA strand elongation involved in DNA replication	0.73926138	1.205651256
ENSG00000118972	FGF23 subnetwork	0.73689352	1.205668264
ENSG00000115461	IGFBP5 subnetwork	0.73723715	1.205705371
ENSG00000111237	VPS29 subnetwork	0.73371556	1.20570789
REACTOME_OLFACTORY_SIGN	REACTOME_OLFACTORY_SIGNALING_PATHWAY	0.73523468	1.205741734
ENSG00000197747	S100A10 subnetwork	0.736579	1.205743281
GO:0030866	cortical actin cytoskeleton organization	0.73578792	1.205759571
GO:0043274	phospholipase binding	0.73898846	1.205764954
MP:0001879	abnormal lymphatic vessel morphology	0.73352234	1.205765786
ENSG00000171365	CLCN5 subnetwork	0.73685983	1.205769231
ENSG00000132334	PTPRE subnetwork	0.73739843	1.205771588
MP:0001915	intracranial hemorrhage	0.73533433	1.205780185
GO:0046503	glycerolipid catabolic process	0.73679474	1.205803323
ENSG00000039068	CDH1 subnetwork	0.73588105	1.205803571
REACTOME_ACTIVATION_OF_	REACTOME_ACTIVATION_OF_ATR_IN_RESPONSE_TO_REPI	0.73368803	1.205803671
GO:0031333	negative regulation of protein complex assembly	0.73360632	1.205815516
ENSG00000129170	CSRP3 subnetwork	0.73576255	1.205838357
ENSG00000134853	PDGFRA subnetwork	0.73566465	1.205861338
MP:0009403	increased variability of skeletal muscle fiber size	0.73612397	1.205869226
MP:0002657	chondrodystrophy	0.73522201	1.205870852
ENSG00000067225	PKM2 subnetwork	0.73514249	1.205871508
ENSG00000087245	MMP2 subnetwork	0.73657497	1.205872184
MP:0003858	enhanced coordination	0.73509007	1.205922449
MP:0000026	abnormal inner ear morphology	0.73609405	1.205931258
GO:0046676	negative regulation of insulin secretion	0.73679404	1.205937779
GO:0031667	response to nutrient levels	0.73656062	1.205984384
GO:0033327	Leydig cell differentiation	0.73565512	1.205990397
GO:0030426	growth cone	0.73507001	1.206006929
GO:0015643	toxin binding	0.73647352	1.206012941
GO:0045768	positive regulation of anti-apoptosis	0.73639549	1.206024768
ENSG00000101680	LAMA1 subnetwork	0.7356371	1.206041318
GO:0003209	cardiac atrium morphogenesis	0.73502257	1.20608025
ENSG00000178896	EXOSC4 subnetwork	0.7356206	1.206136922

Enrichment analyses for the Genome wide significant loci from largest GWAS of autoimmune diseases performed in Caucasian individuals

Disease	Publication [PMID]	No. hits*	Fraction of loci associated to allergy [P<0.05]	Fraction in same direction	Enrichment OR**	95%CI		P
Crohn's disease	21102463	68	0.28	0.63	6.9	3.8	12.0	1.6E-09
Multiple sclerosis	21833088	52	0.23	0.50	5.3	2.6	10.4	1.4E-05
Ulcerative colitis	21297633	39	0.28	0.36	7.0	3.1	14.5	4.0E-06
Celiac disease	20190752	27	0.30	0.50	7.5	2.8	18.0	5.7E-05
Primary biliary cirrhosis	21399635	20	0.40	0.38	11.9	4.2	31.6	4.5E-06

*Able for lookup within the allergy dataset

**Enrichment of loci associated to allergy as compared to number of significant [P<0.05] independent loci within the allergy meta-analysis

e0evv??2? ? ? ? ? ? ? ?
pr 1???e303????



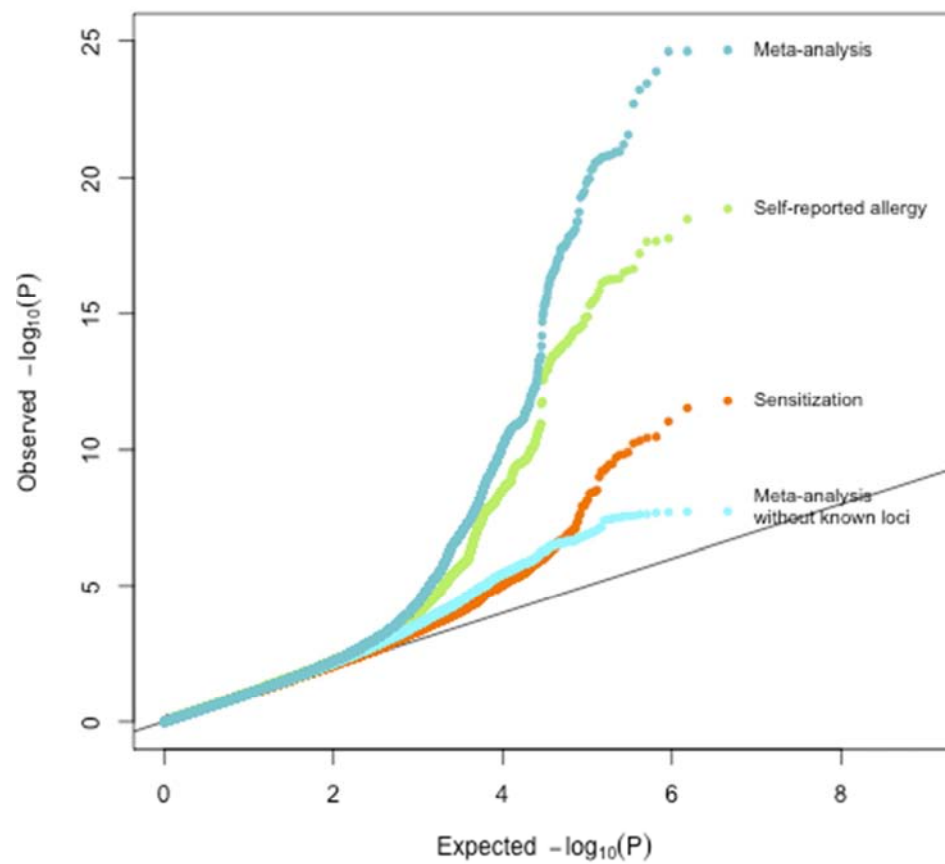
3v) 2r) rev)

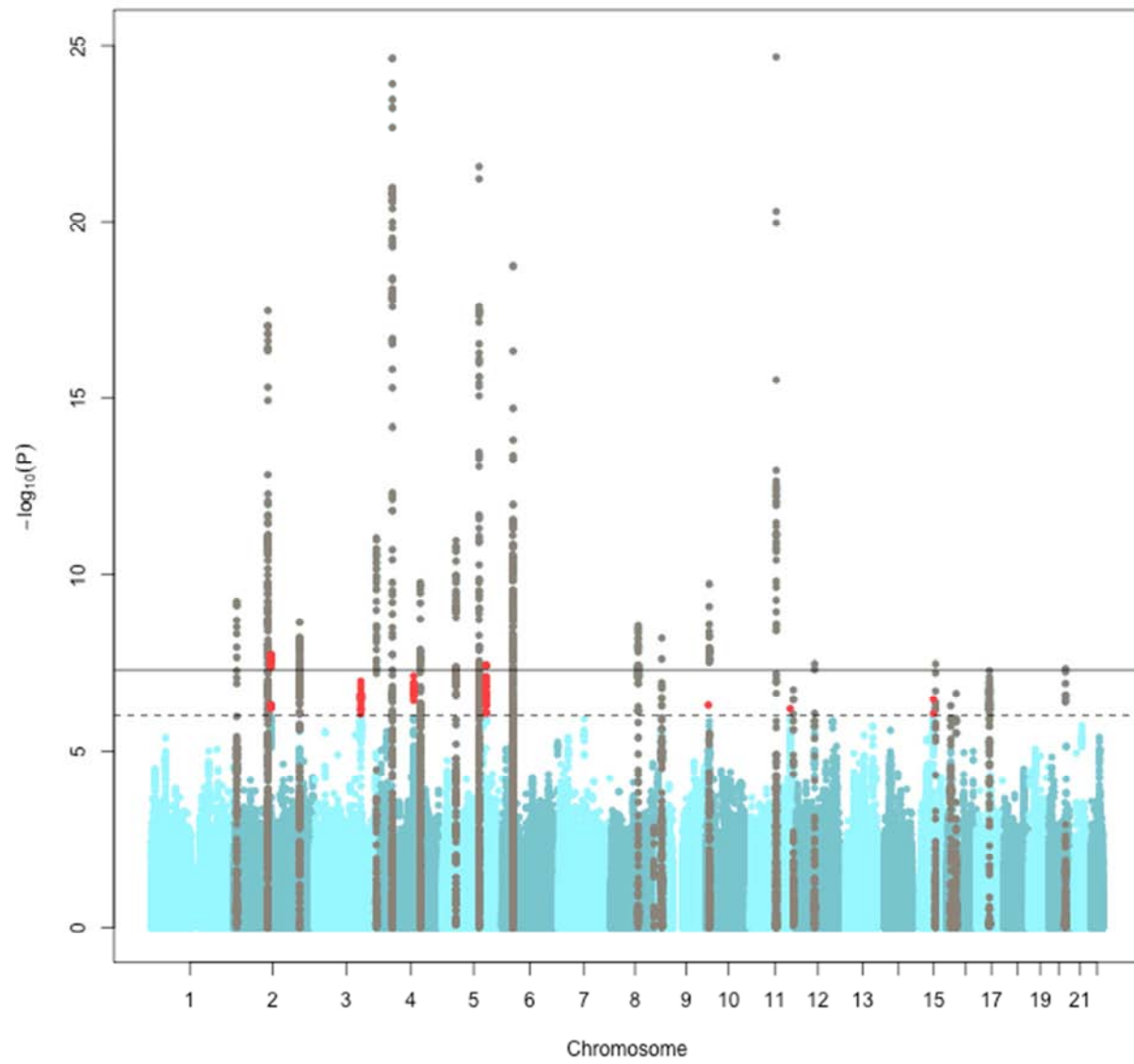
mp1

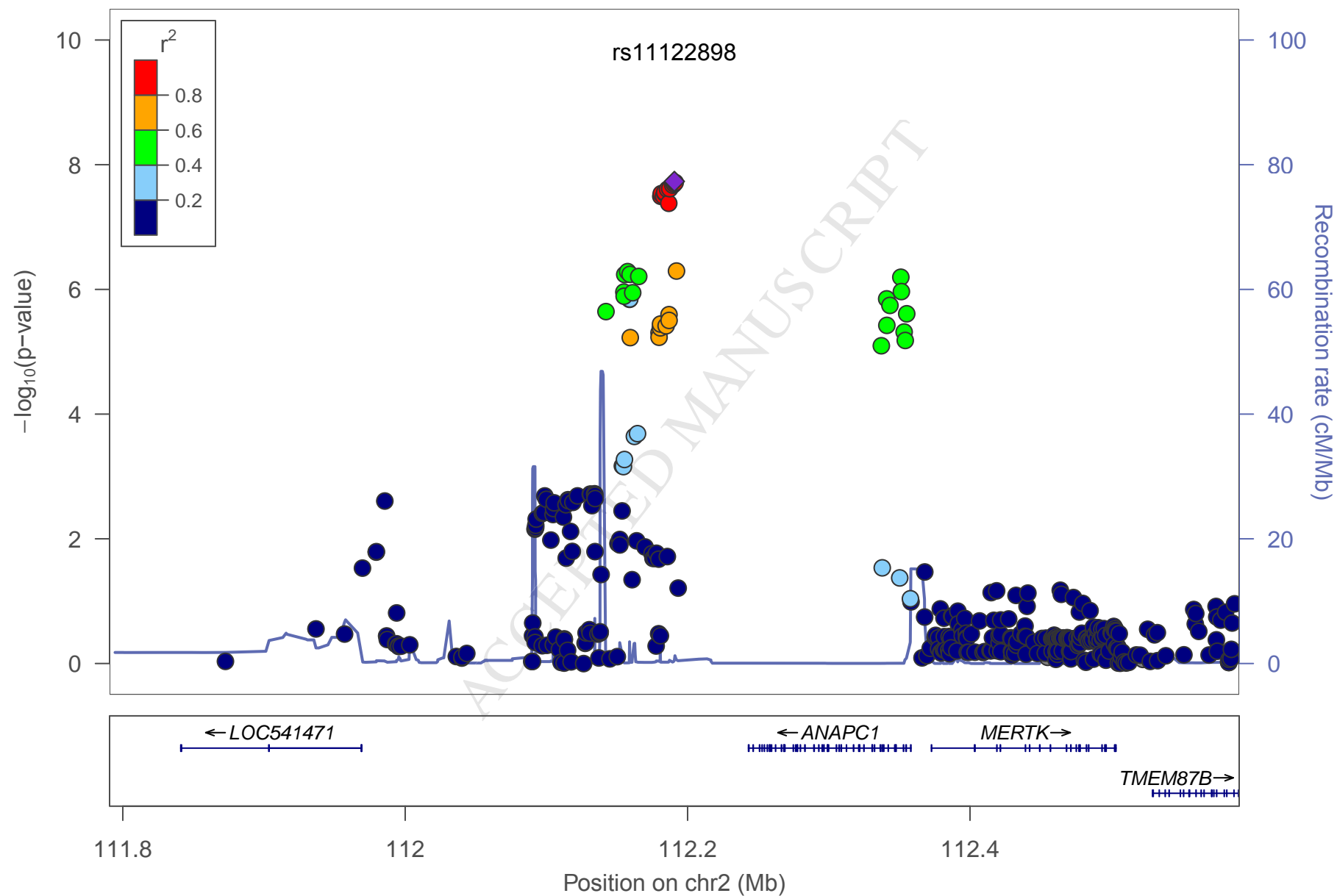
??	??
----	----



mpv [] [] [] Sob [] [] [] [] [] myv(0t[]







date: Mon Dec 23 05:36:52 2013

build: hg18

display range: chr2:111790645–112590645 [111790645–112590645]

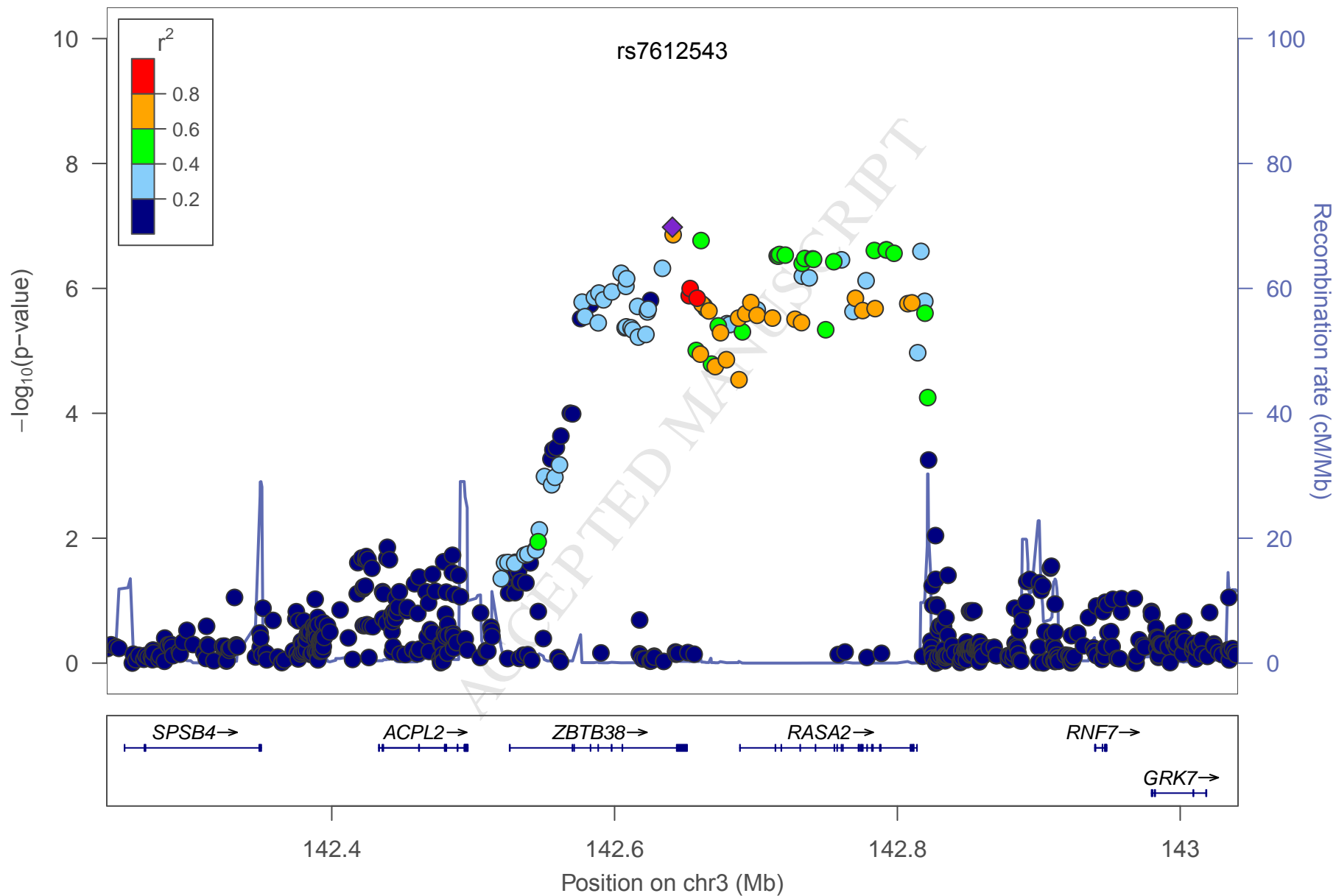
hilit range: 0 – 0 [0 – 0]

reference SNP: chr2:112190645

number of SNPs plotted: 348

max P.value: 1.85E–8 [chr2:112190645]

min P.value: 9.97E–1 [chr2:112126313]



date: Mon Dec 23 05:39:26 2013

build: hg18

display range: chr3:142240902–143040902 [142240902–143040902]

hilit range: 0 – 0 [0 – 0]

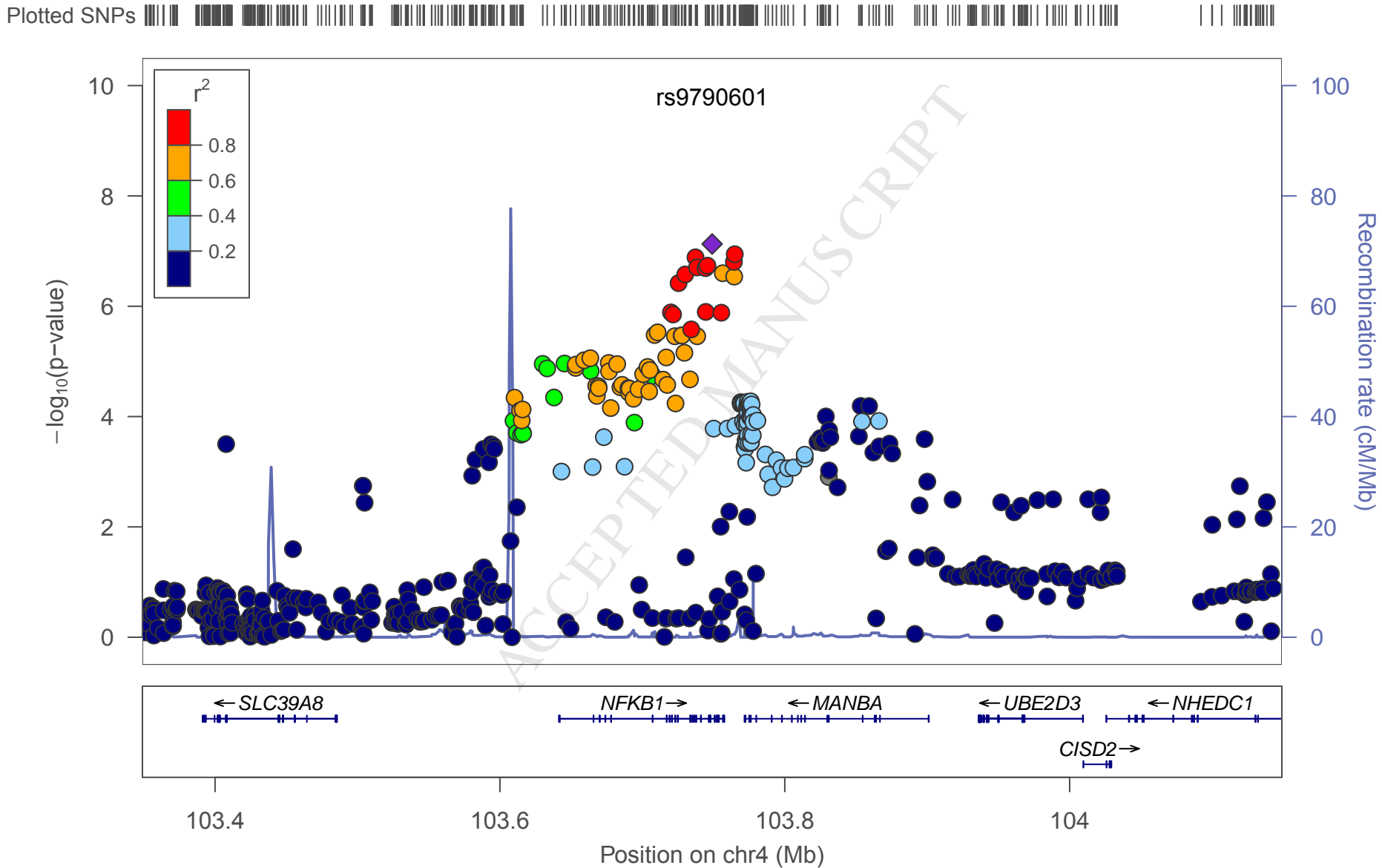
reference SNP: chr3:142640902

number of SNPs plotted: 561

max P.value: 1.05E–7 [chr3:142640902]

min P.value: 9.95E–1 [chr3:142827041]

rs9790601



date: Mon Mar 31 15:03:02 2014

build: hg18

display range: chr4:103349001–104149001 [103349001–104149001]

hilit range: 0 – 0 [0 – 0]

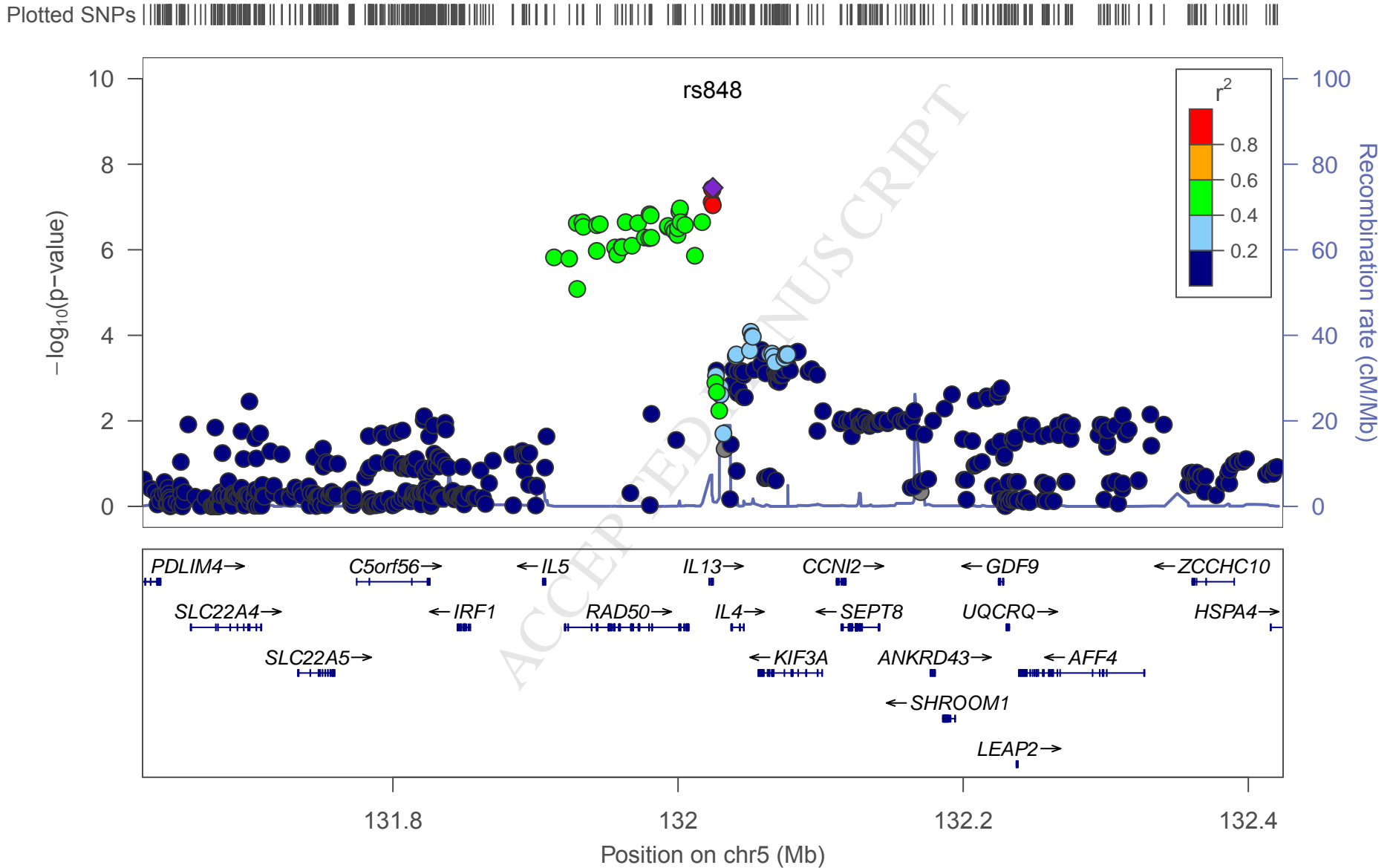
reference SNP: chr4:103749001

number of SNPs plotted: 514

max P.value: 7.44E–8 [chr4:103749001]

min P.value: 9.91E–1 [chr4:103608433]

rs848



date: Mon Mar 31 15:06:39 2014

build: hg18

display range: chr5:131624399–132424399 [131624399–132424399]

hilit range: 0 – 0 [0 – 0]

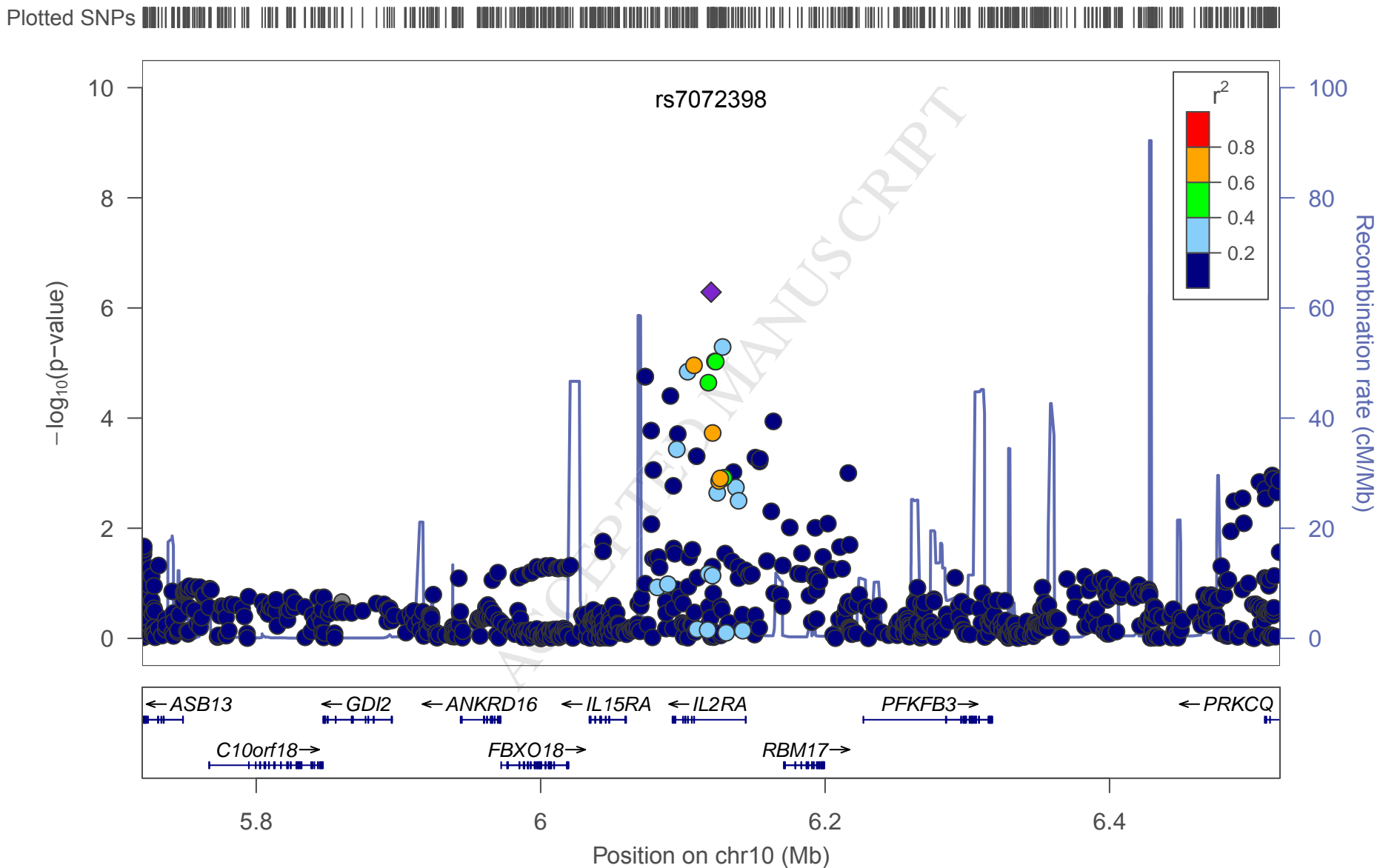
reference SNP: chr5:132024399

number of SNPs plotted: 560

max P.value: 3.54E–8 [chr5:132024399]

min P.value: 9.97E–1 [chr5:131652285]

rs7072398



date: Mon Mar 31 15:15:04 2014

build: hg18

display range: chr10:5719852–6519852 [5719852–6519852]

hilit range: 0 – 0 [0 – 0]

reference SNP: chr10:6119852

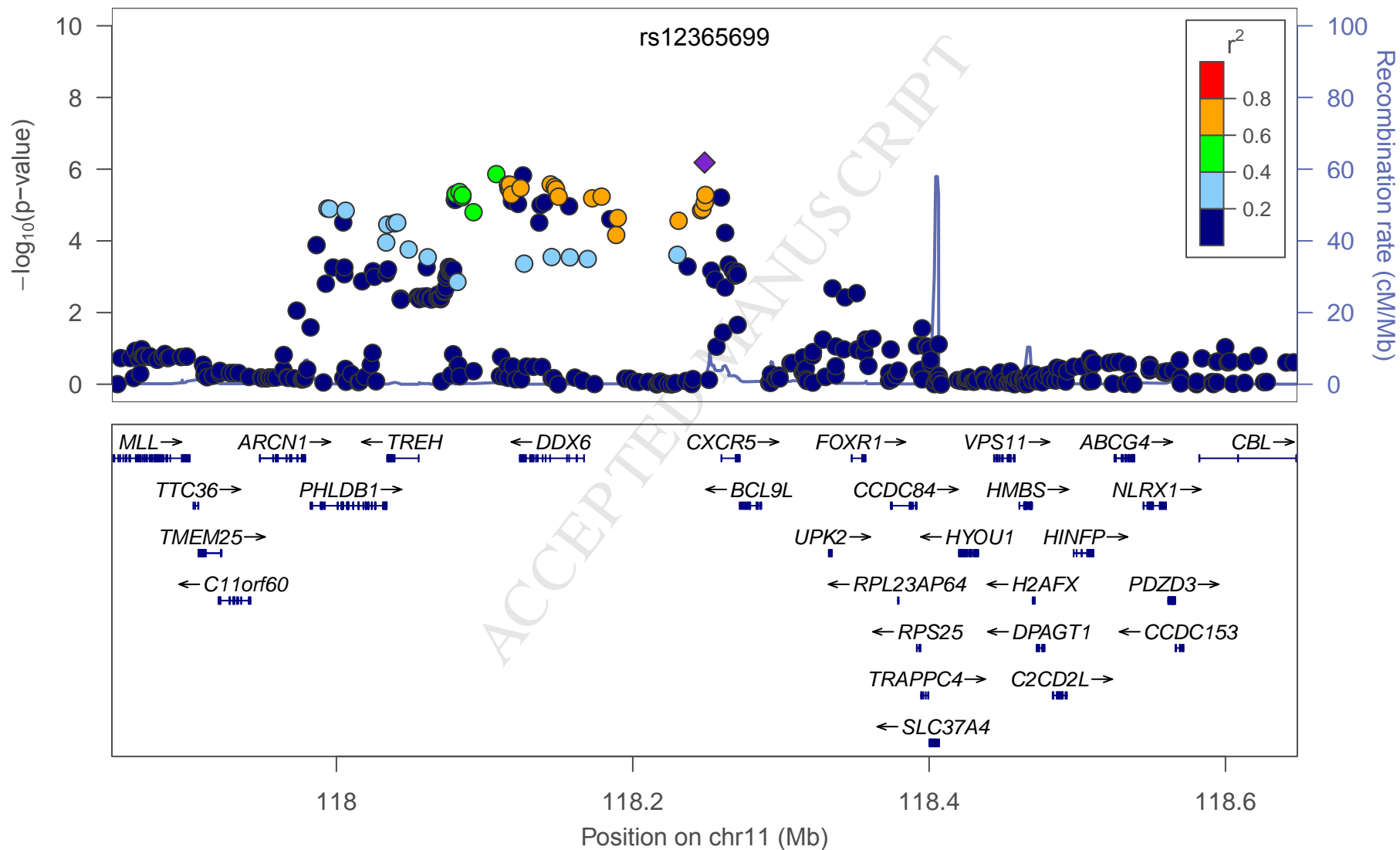
number of SNPs plotted: 793

max P.value: 5.17E–7 [chr10:6119852]

min P.value: 9.96E–1 [chr10:6000215]

rs12365699

Plotted SNPs



date: Mon Mar 31 15:19:15 2014

build: hg18

display range: chr11:117848496–118648496 [117848496–118648496]

hilit range: 0 – 0 [0 – 0]

reference SNP: chr11:118248496

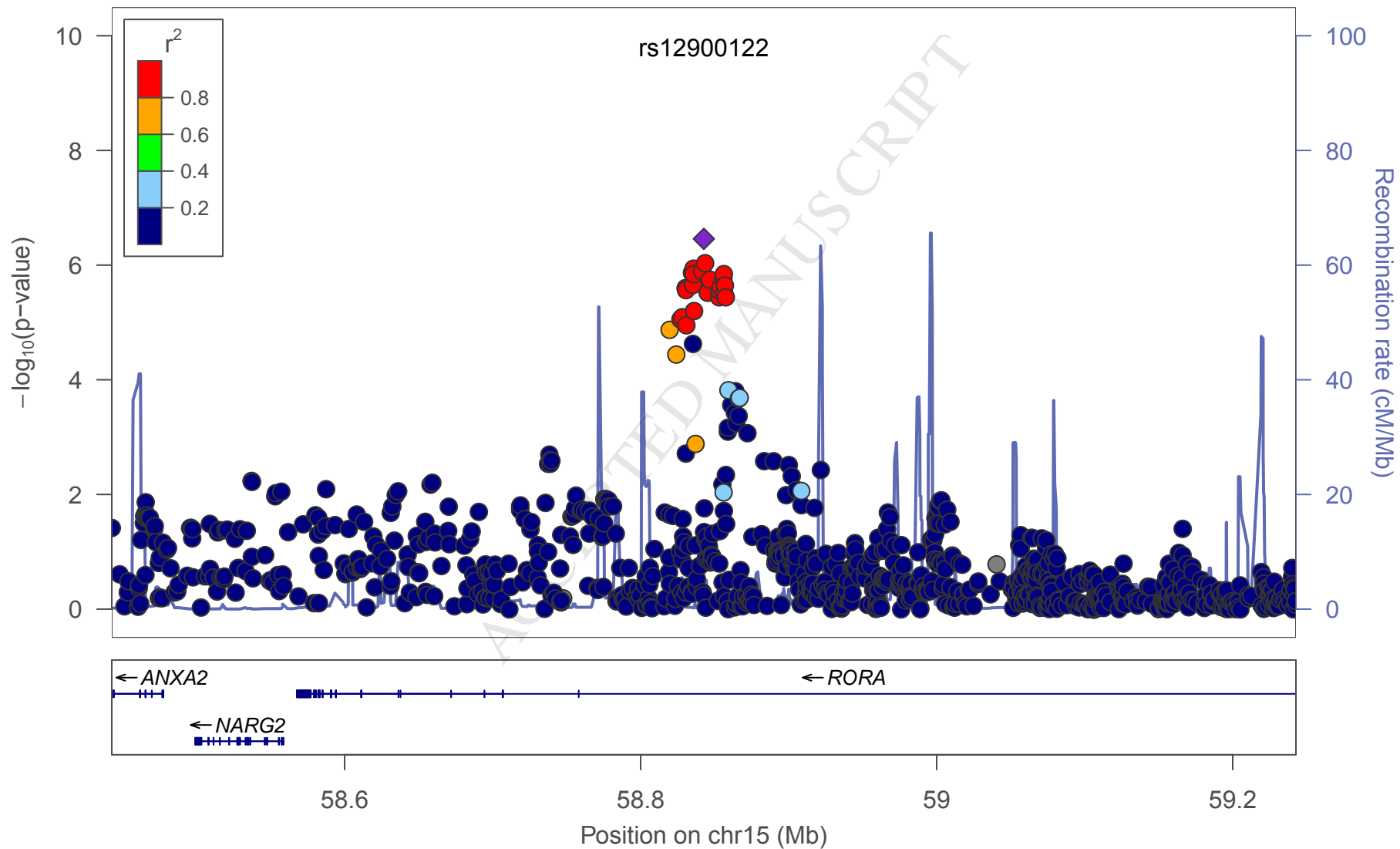
number of SNPs plotted: 374

max P.value: 6.54E–7 [chr11:118248496]

min P.value: 9.96E–1 [chr11:118407819]

rs12900122

Plotted SNPs



date: Mon Mar 31 15:23:06 2014

build: hg18

display range: chr15:58442703–59242703 [58442703–59242703]

hilit range: 0 – 0 [0 – 0]

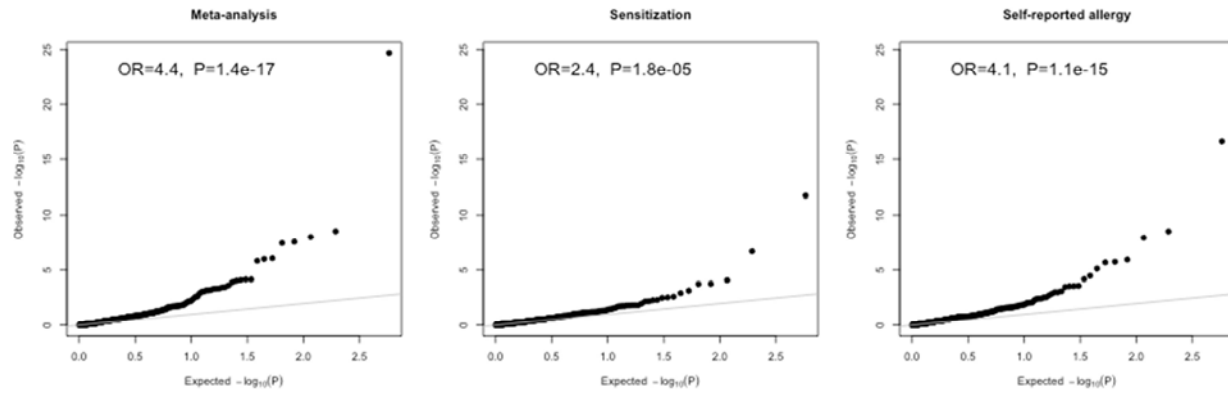
reference SNP: chr15:58842703

number of SNPs plotted: 944

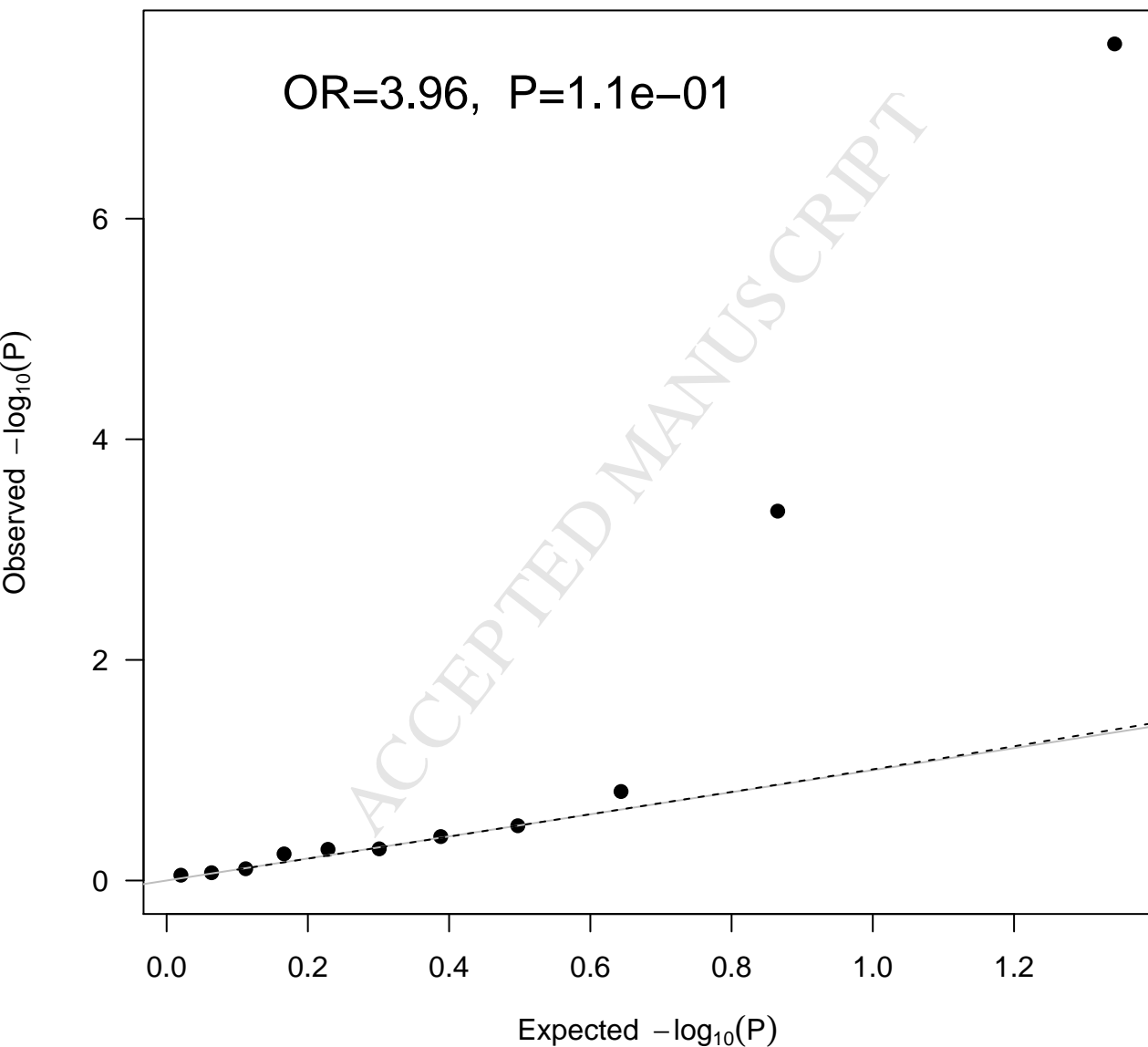
max P.value: 3.48E–7 [chr15:58842703]

min P.value: 9.99E–1 [chr15:58711195]

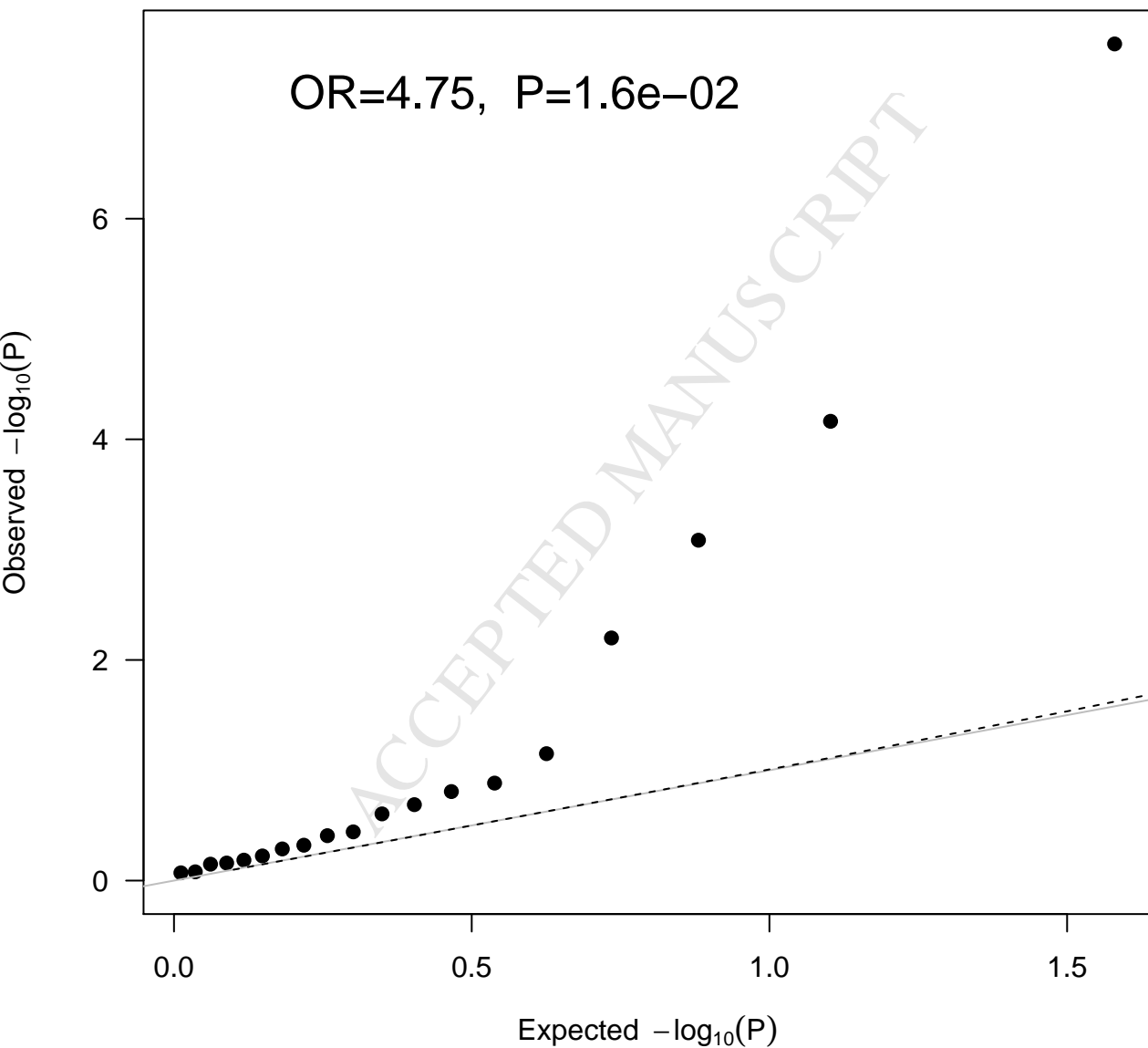
ACCEPTED MANUSCRIPT



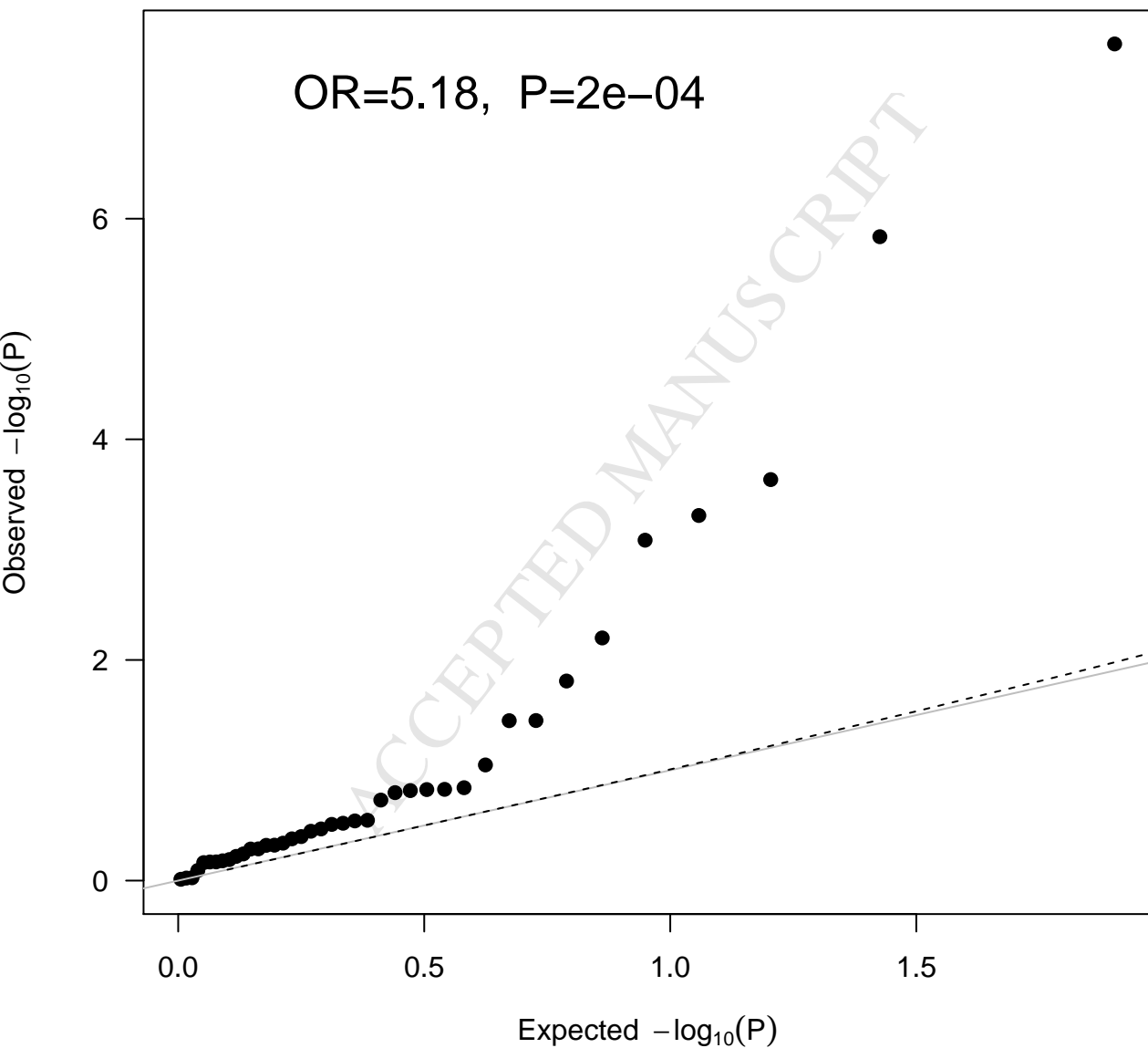
ANKYLOSING SPONDYLITIS META-ANALYSIS



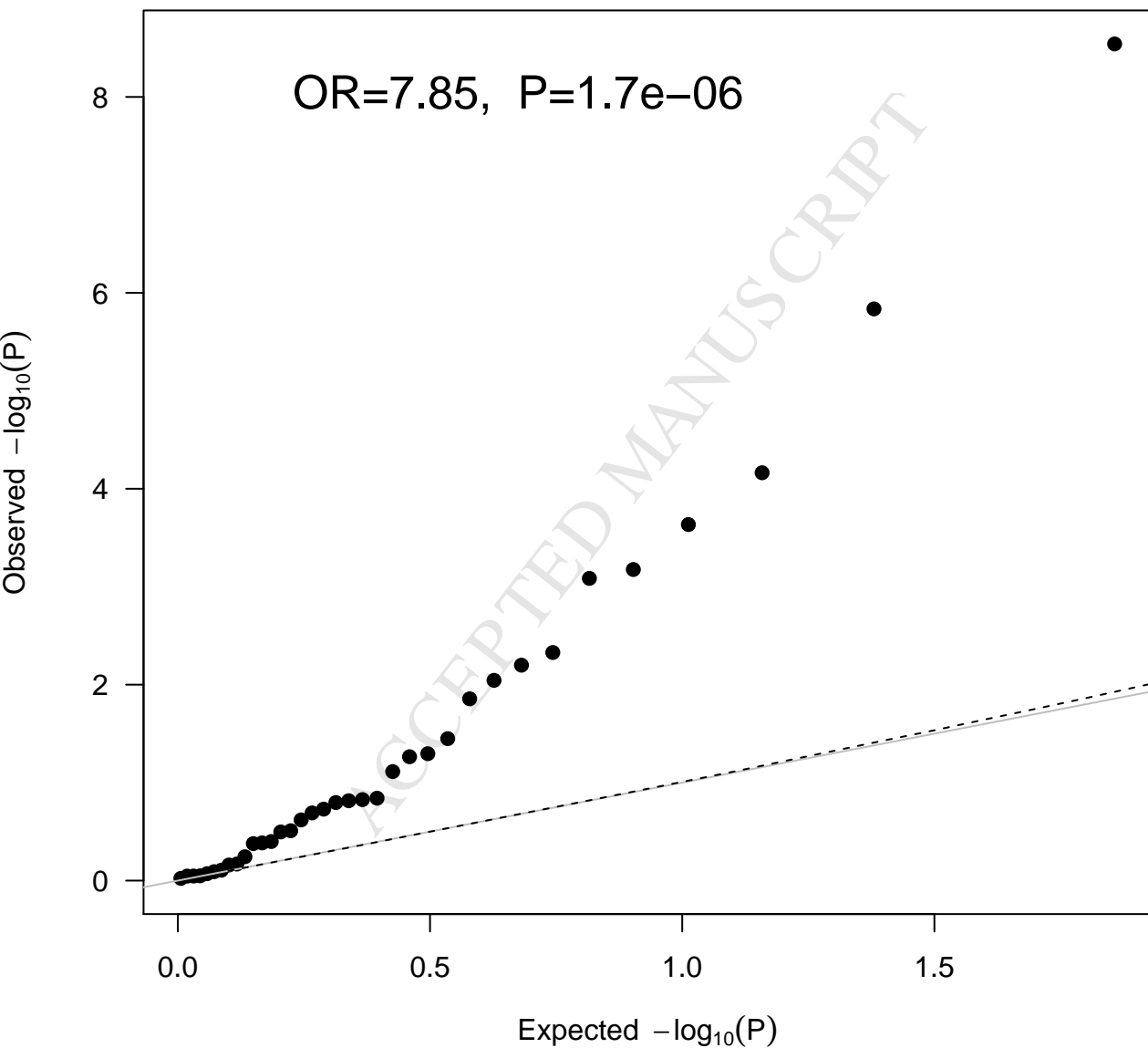
PSORIASIS META-ANALYSIS



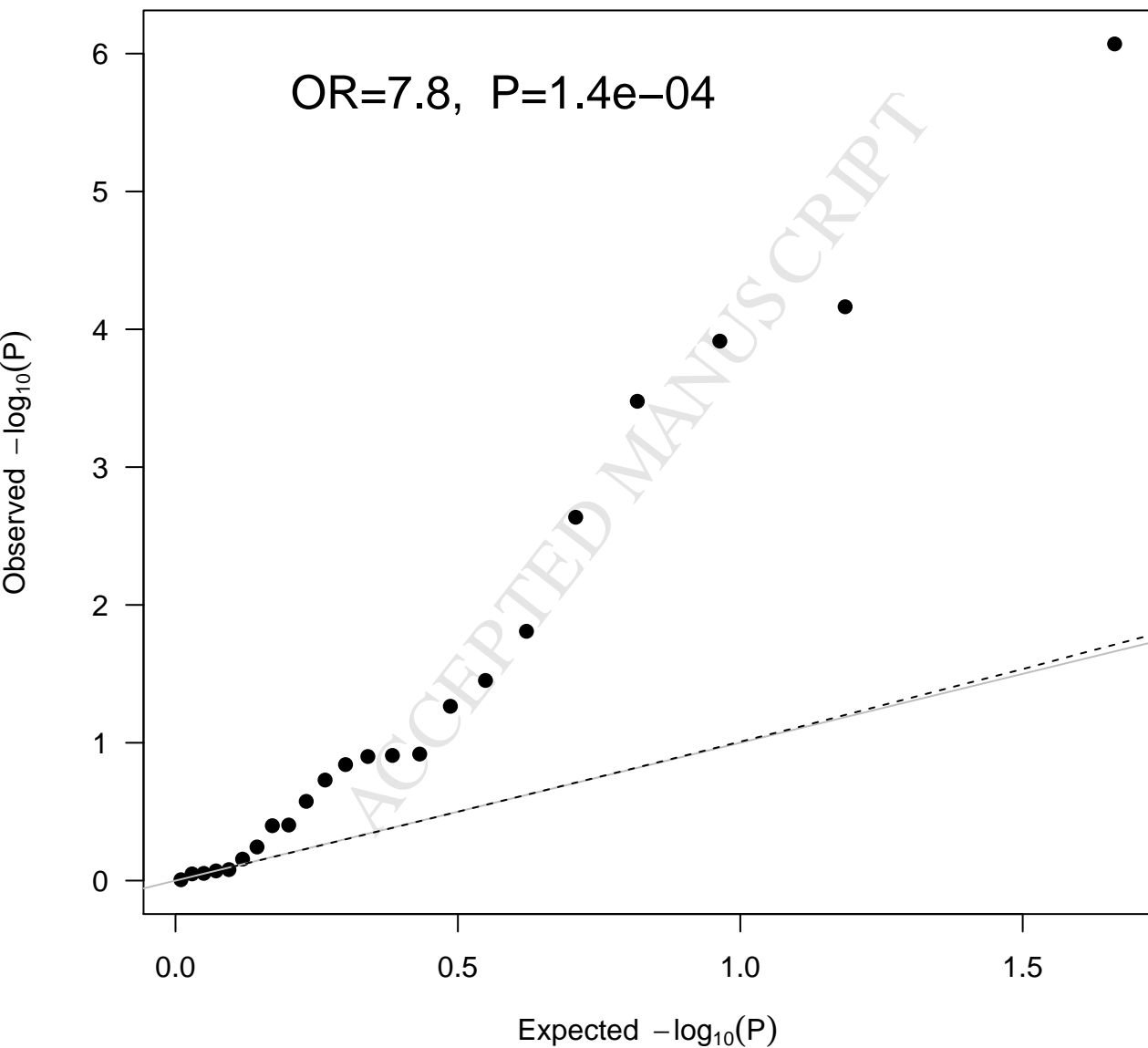
ARTHRITIS META-ANALYSIS



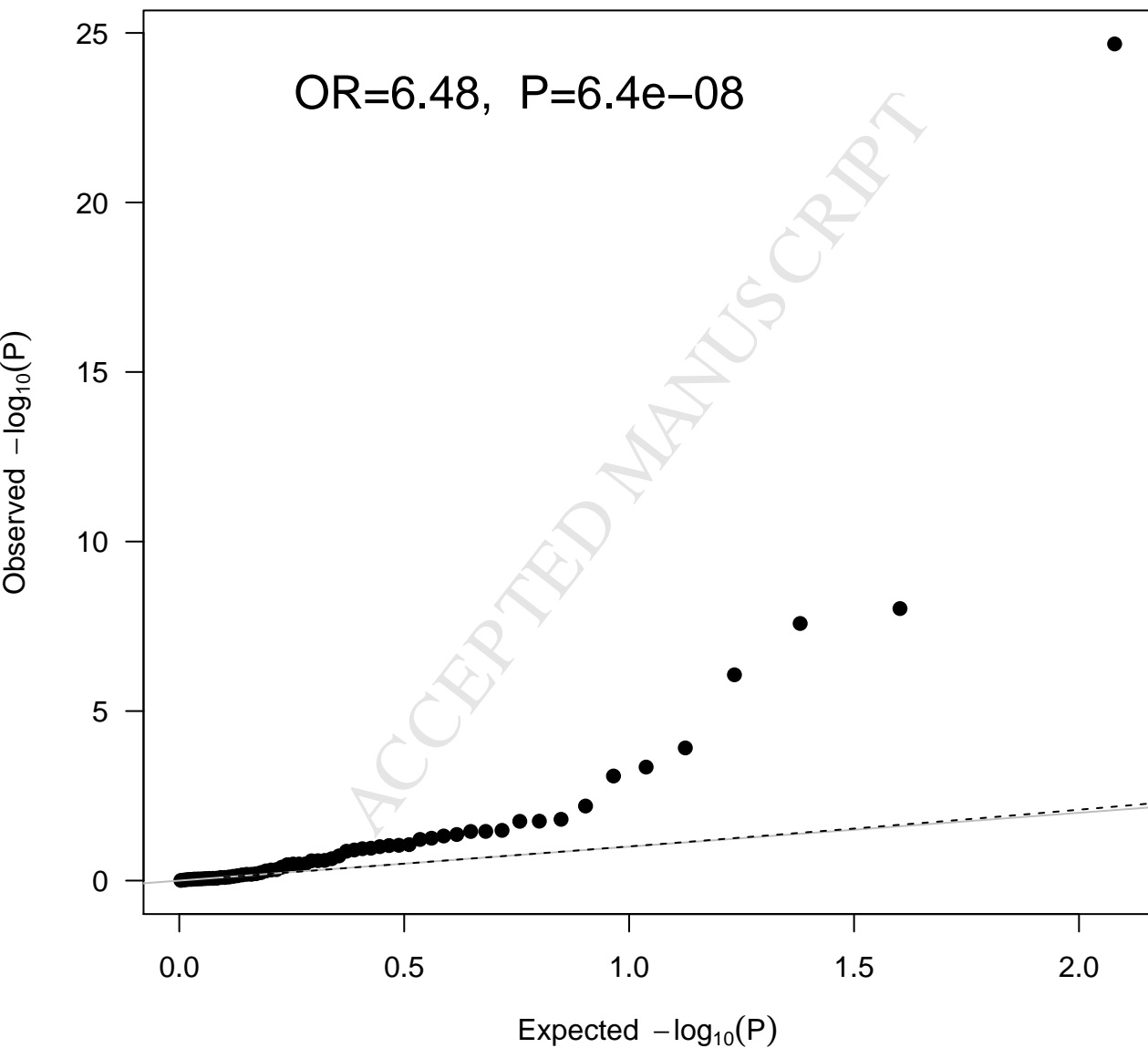
CELIAC DISEASE META-ANALYSIS



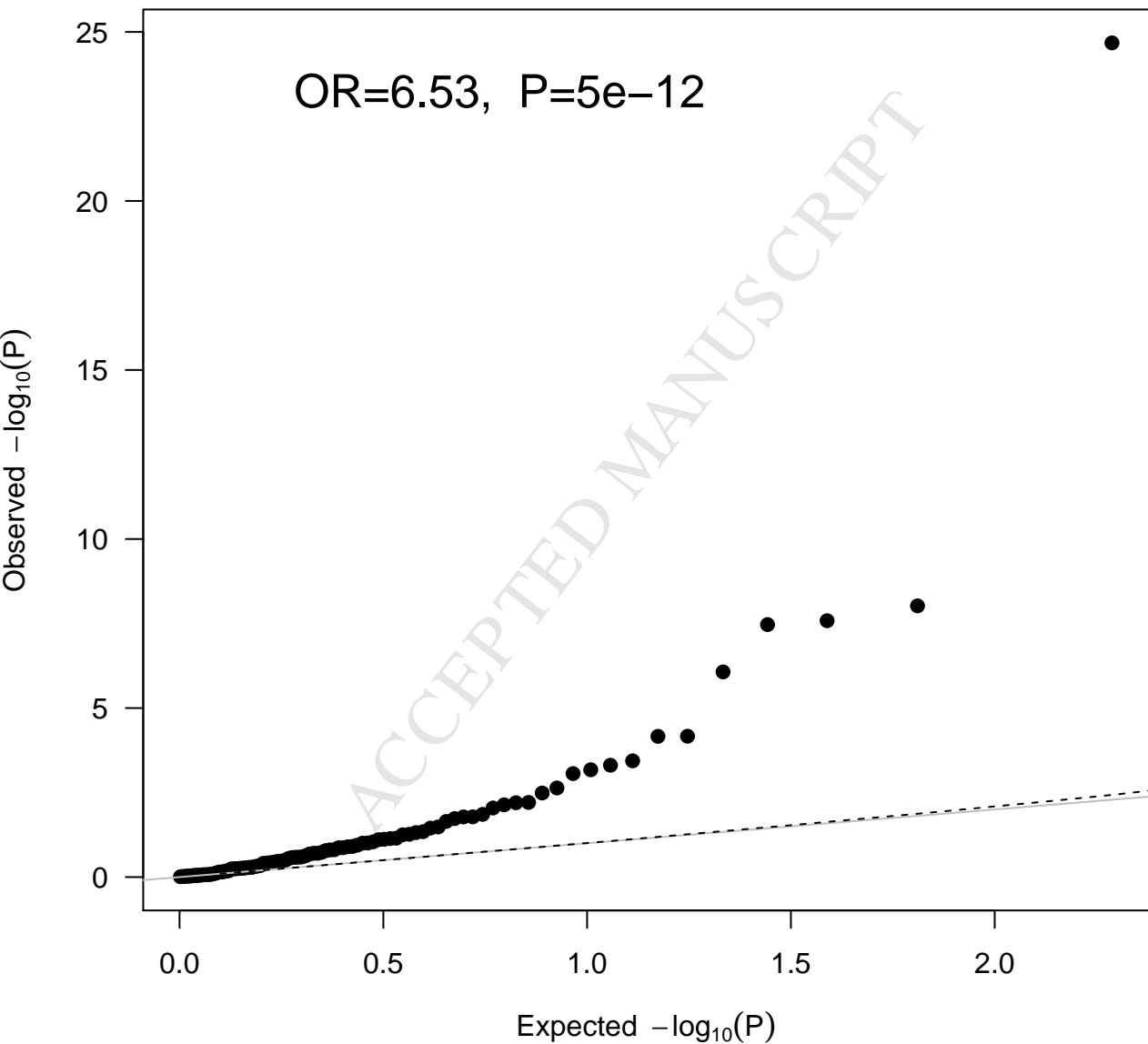
PRIMARY BILIARY CIRROSIS META-ANALYSIS



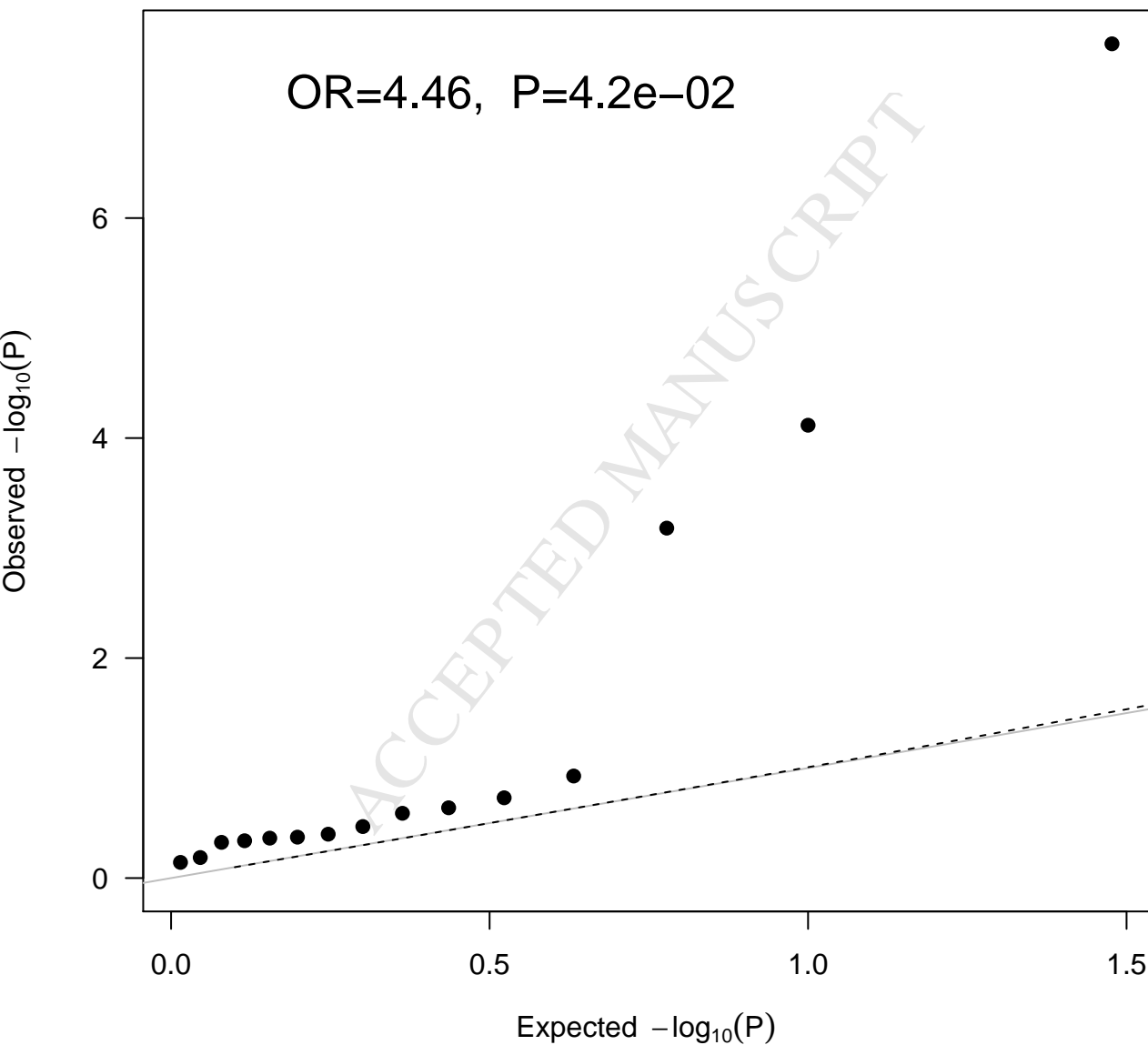
COLITIS ULSEROSA META-ANALYSIS



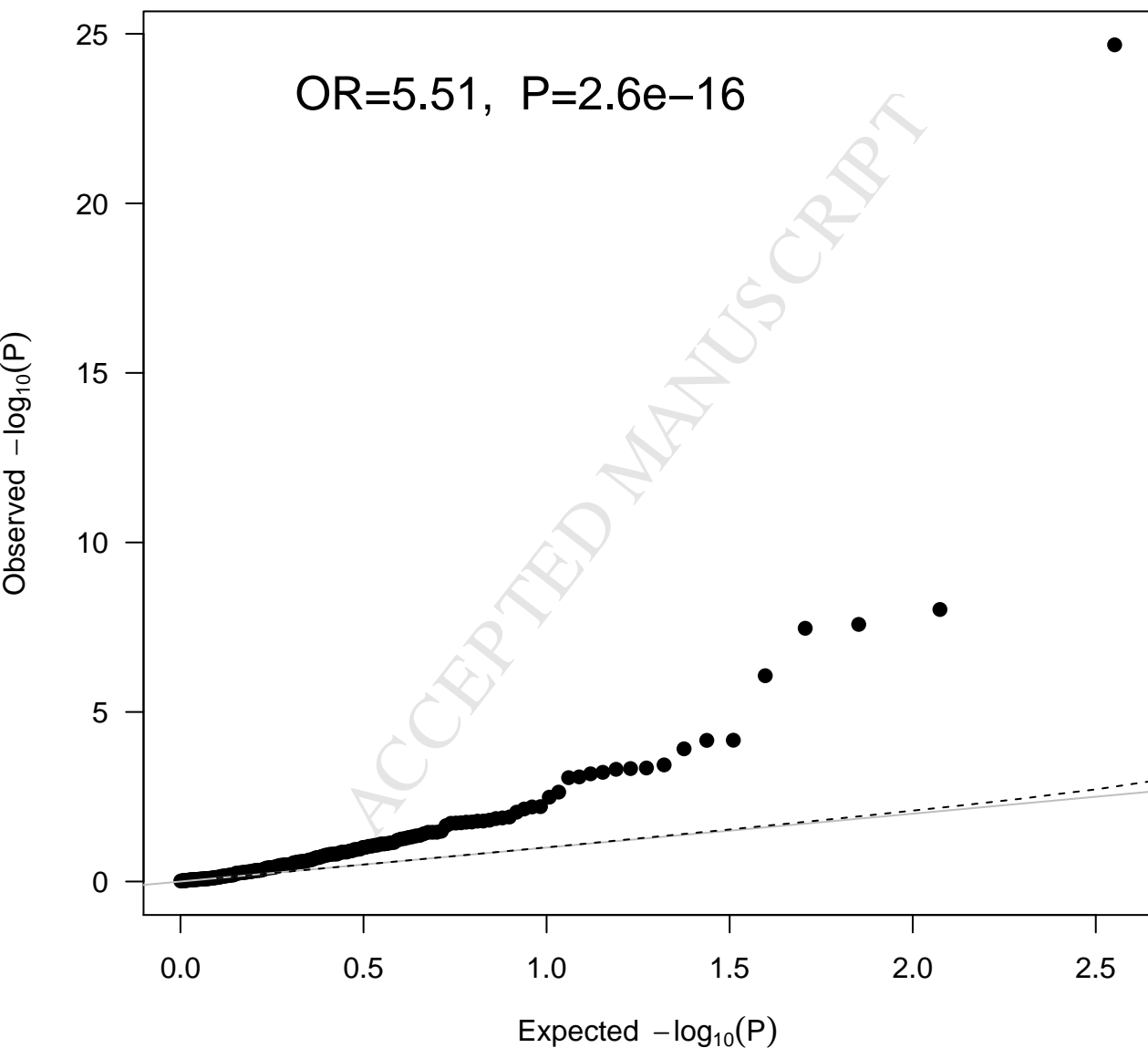
CROHN'S DISEASE META-ANALYSIS



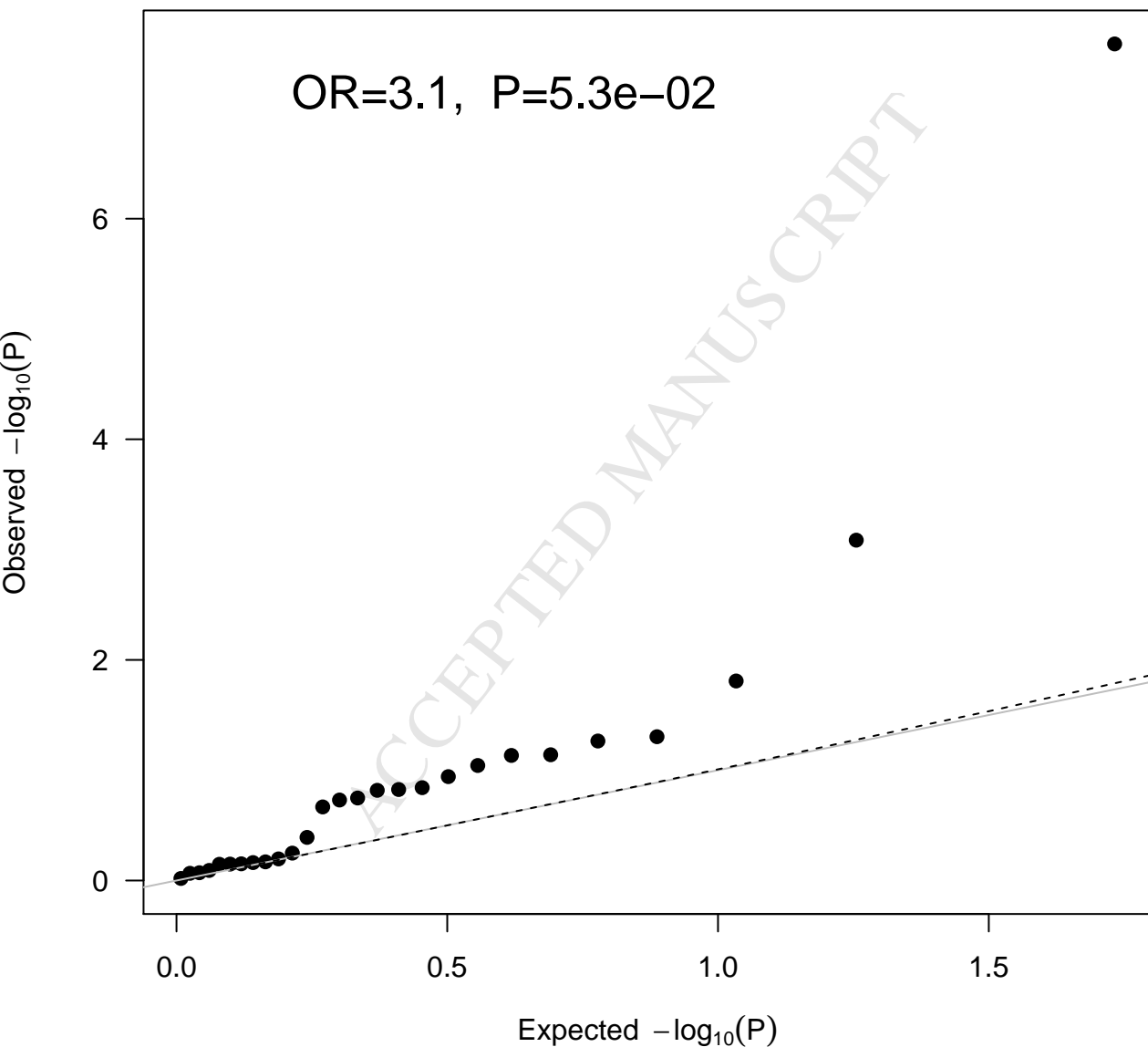
GRAVES DISEASE META-ANALYSIS



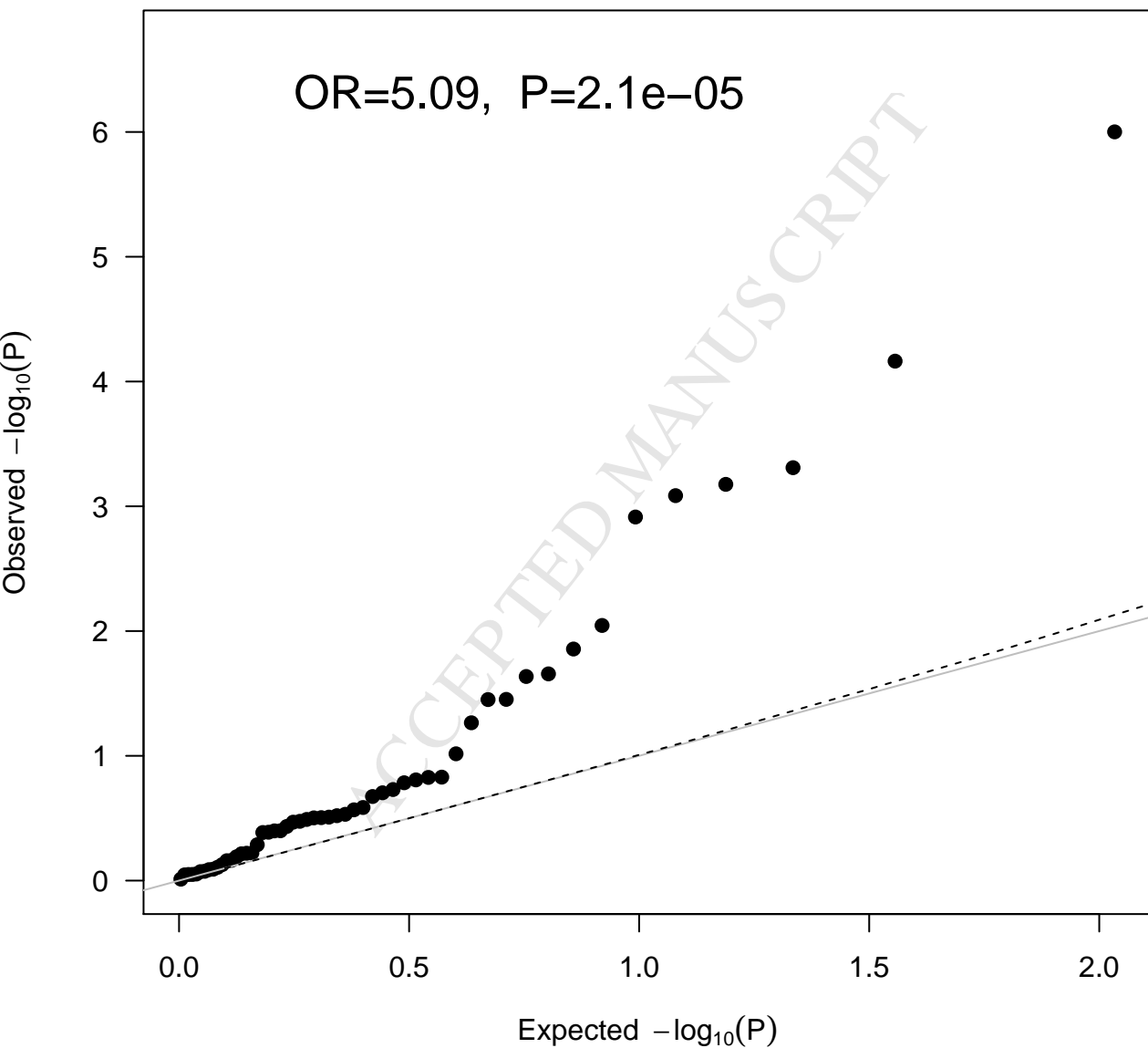
INFLAMMATORY BOWEL DISEASE META-ANALYSIS



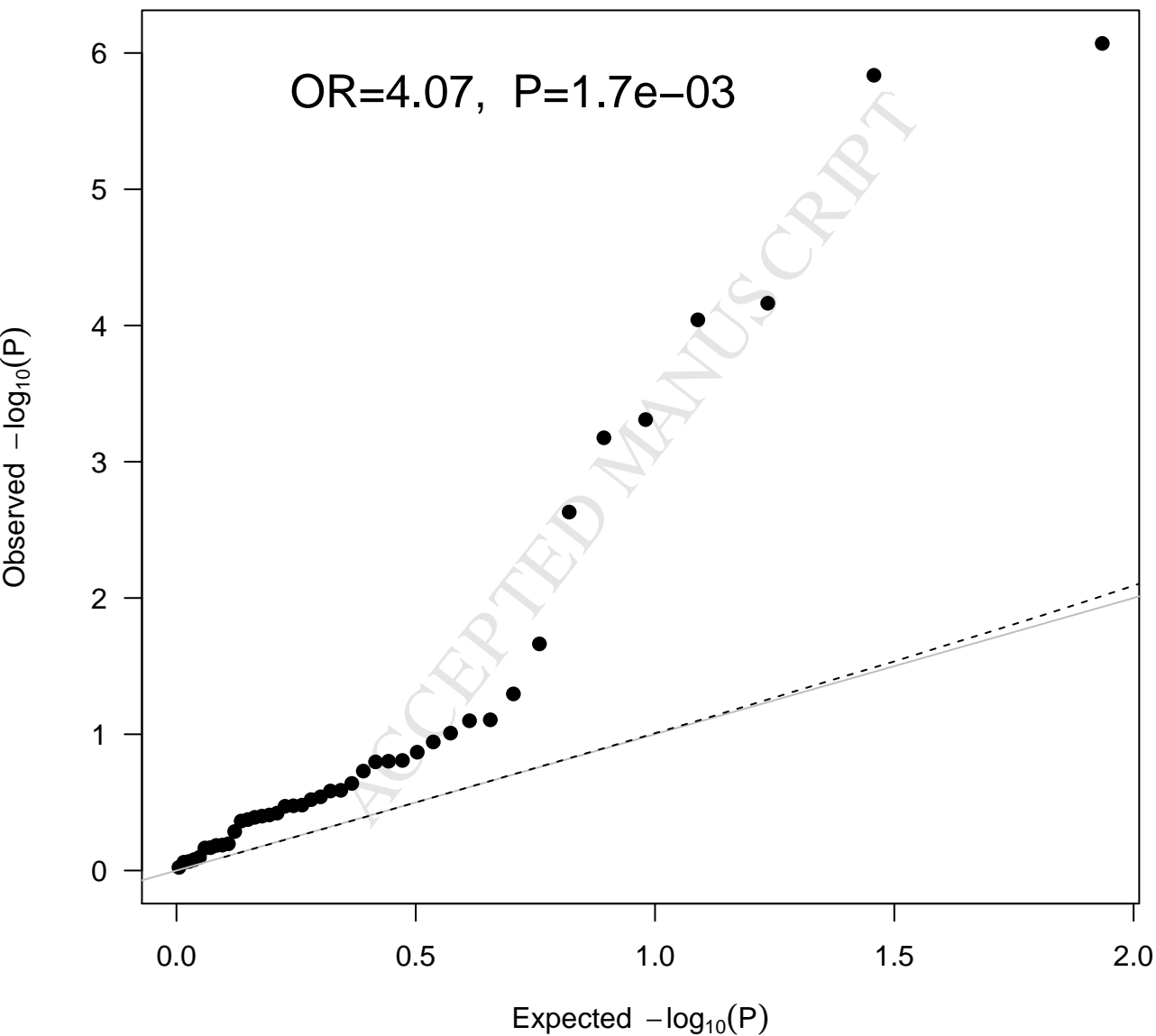
SYSTEMIC LUPUS ERYTHEMATOSUS META-ANALYSIS

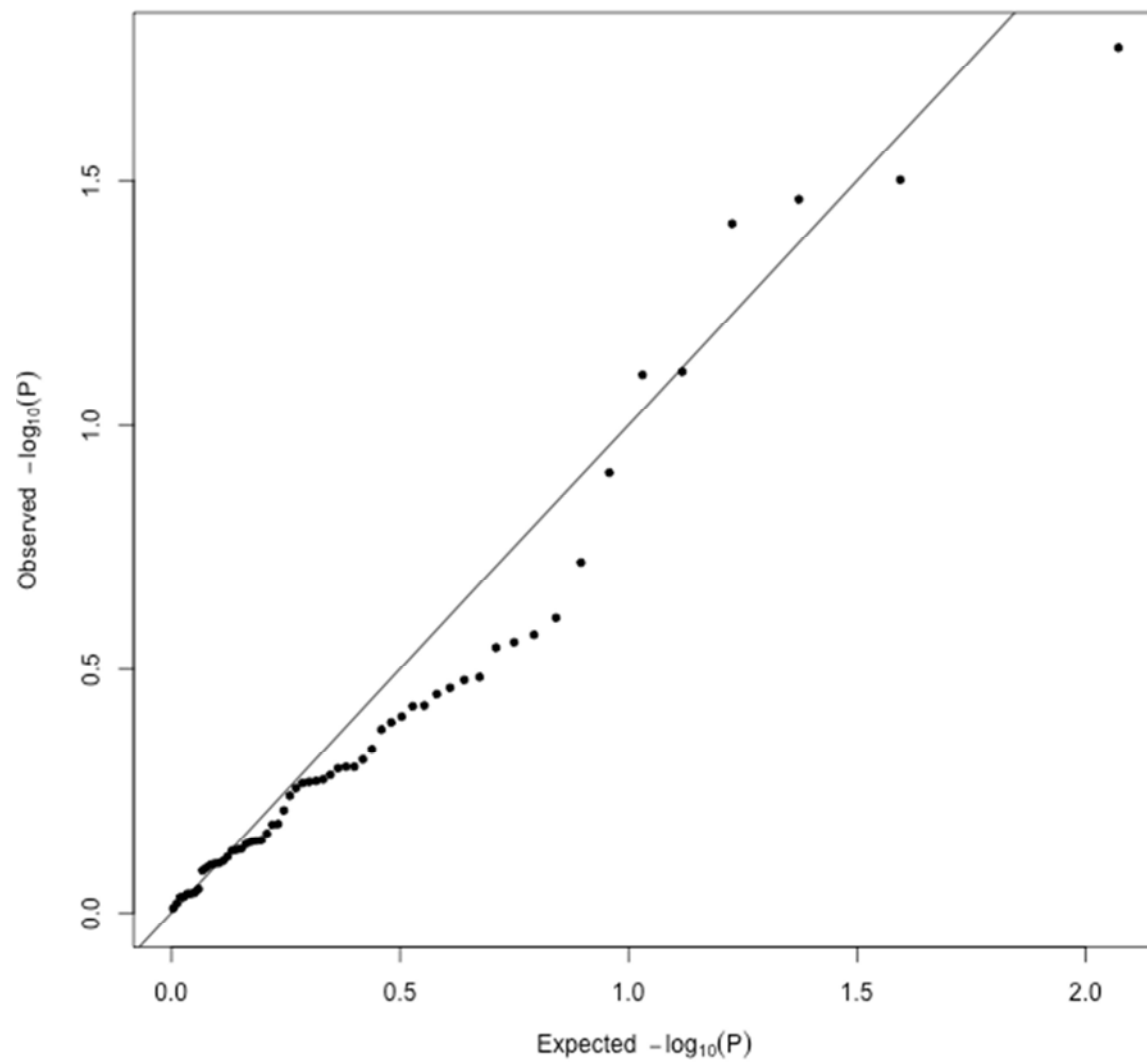


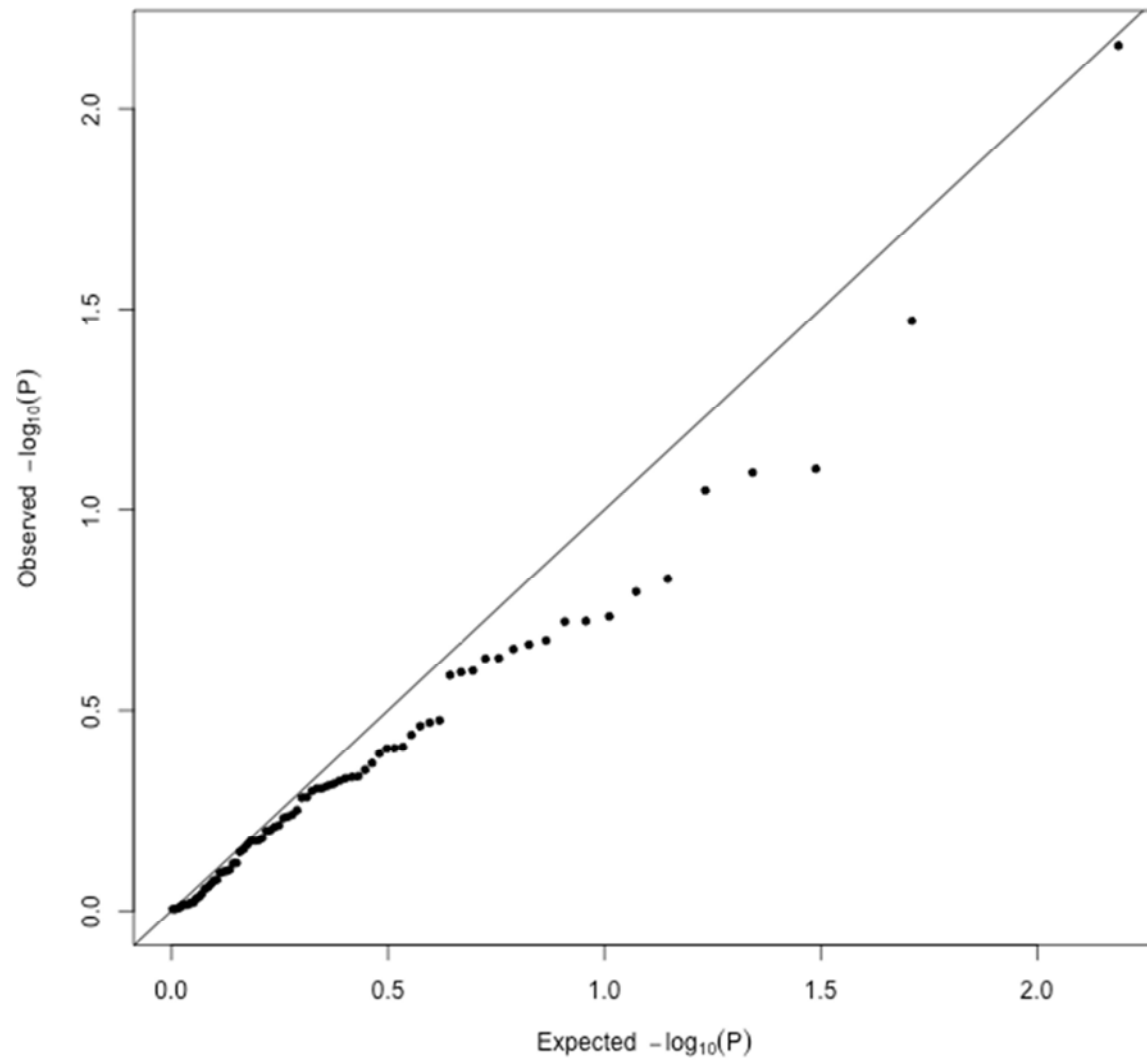
MULTIPLE SCLEROSIS META-ANALYSIS

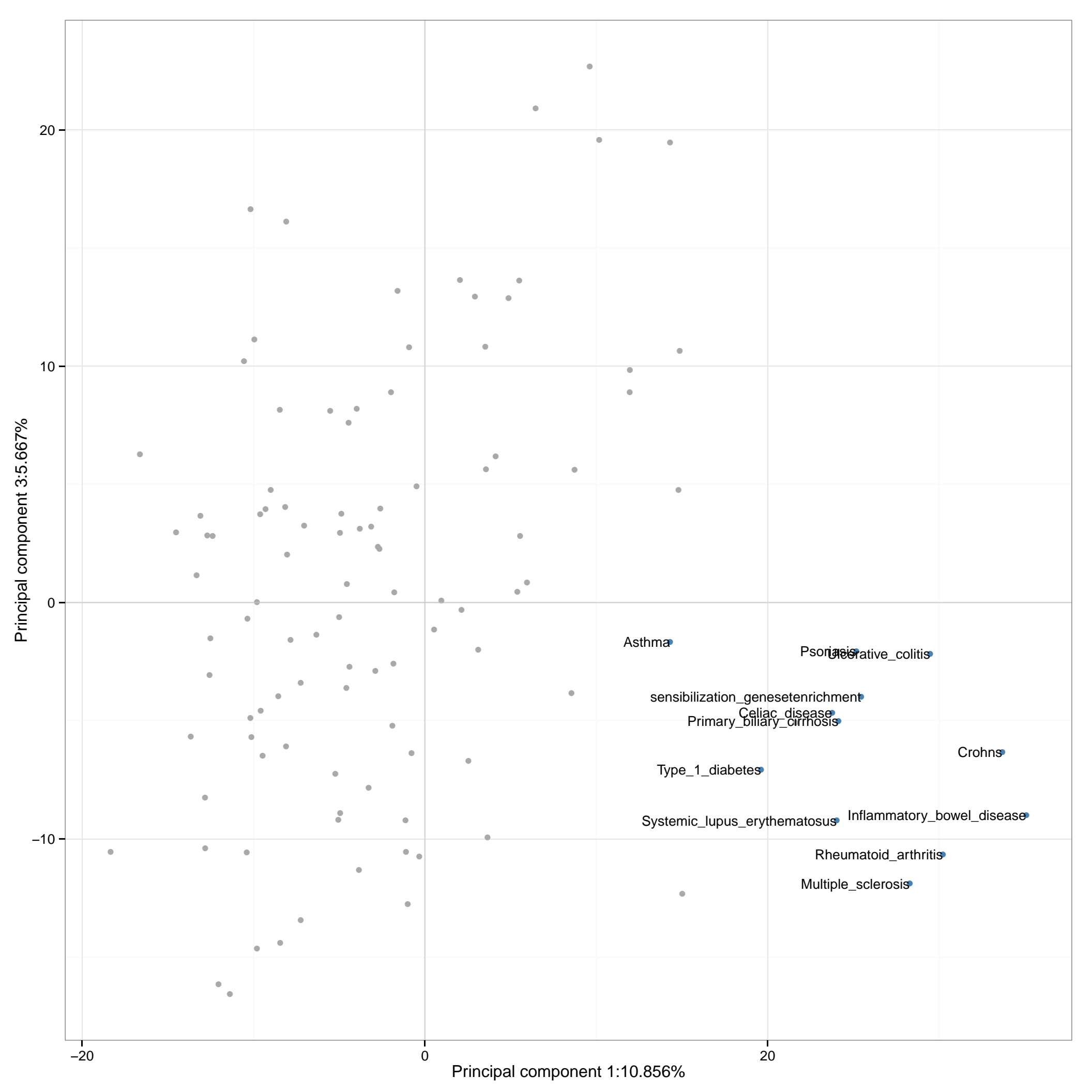


TYPE 1 DIABETES META-ANALYSIS

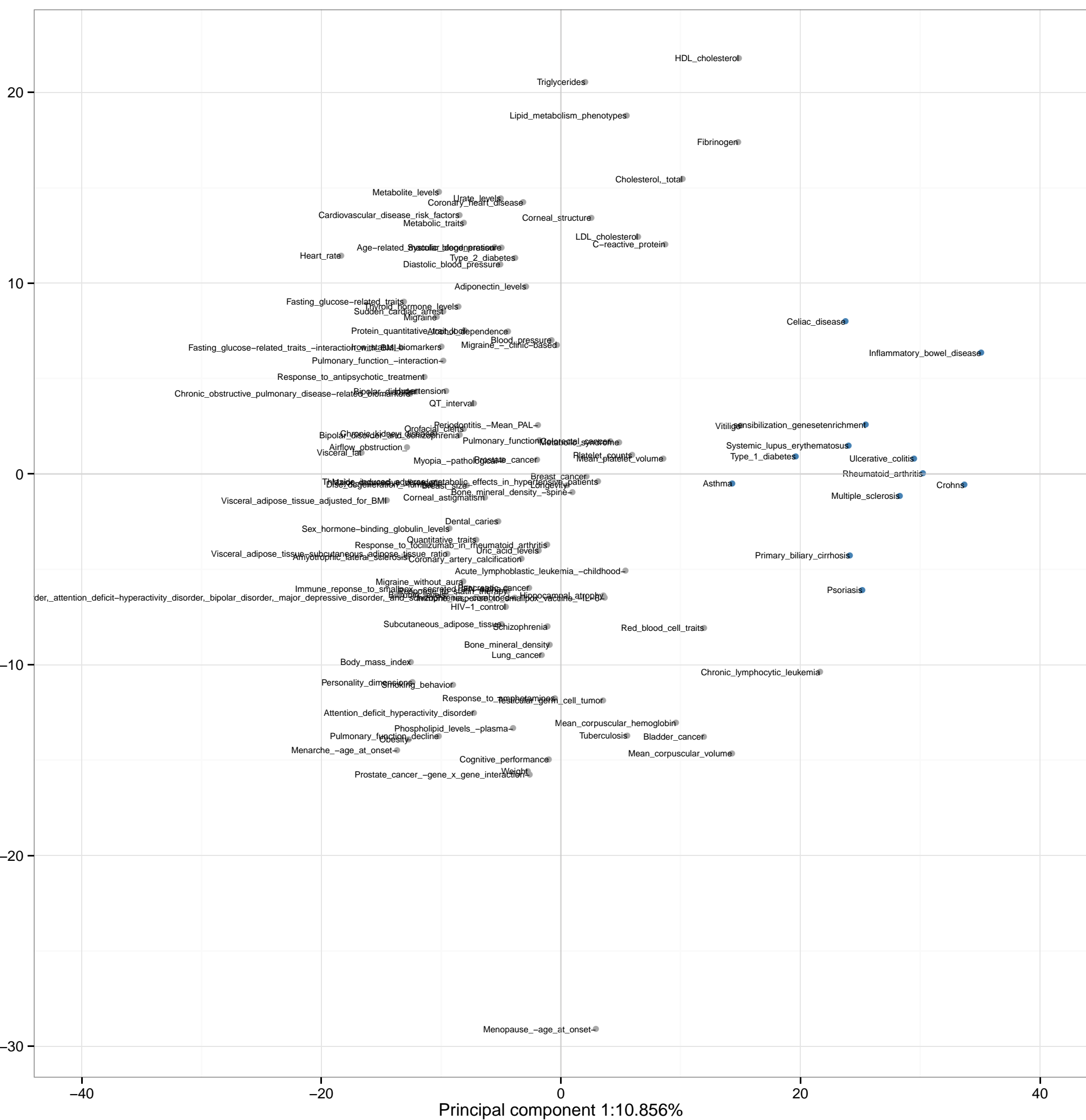






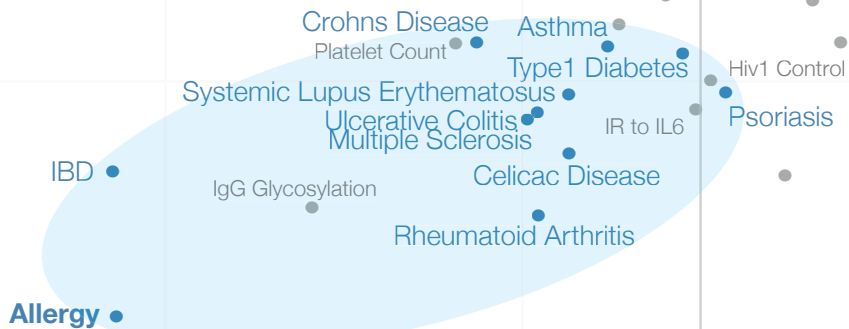


Principal component 2:6.699%



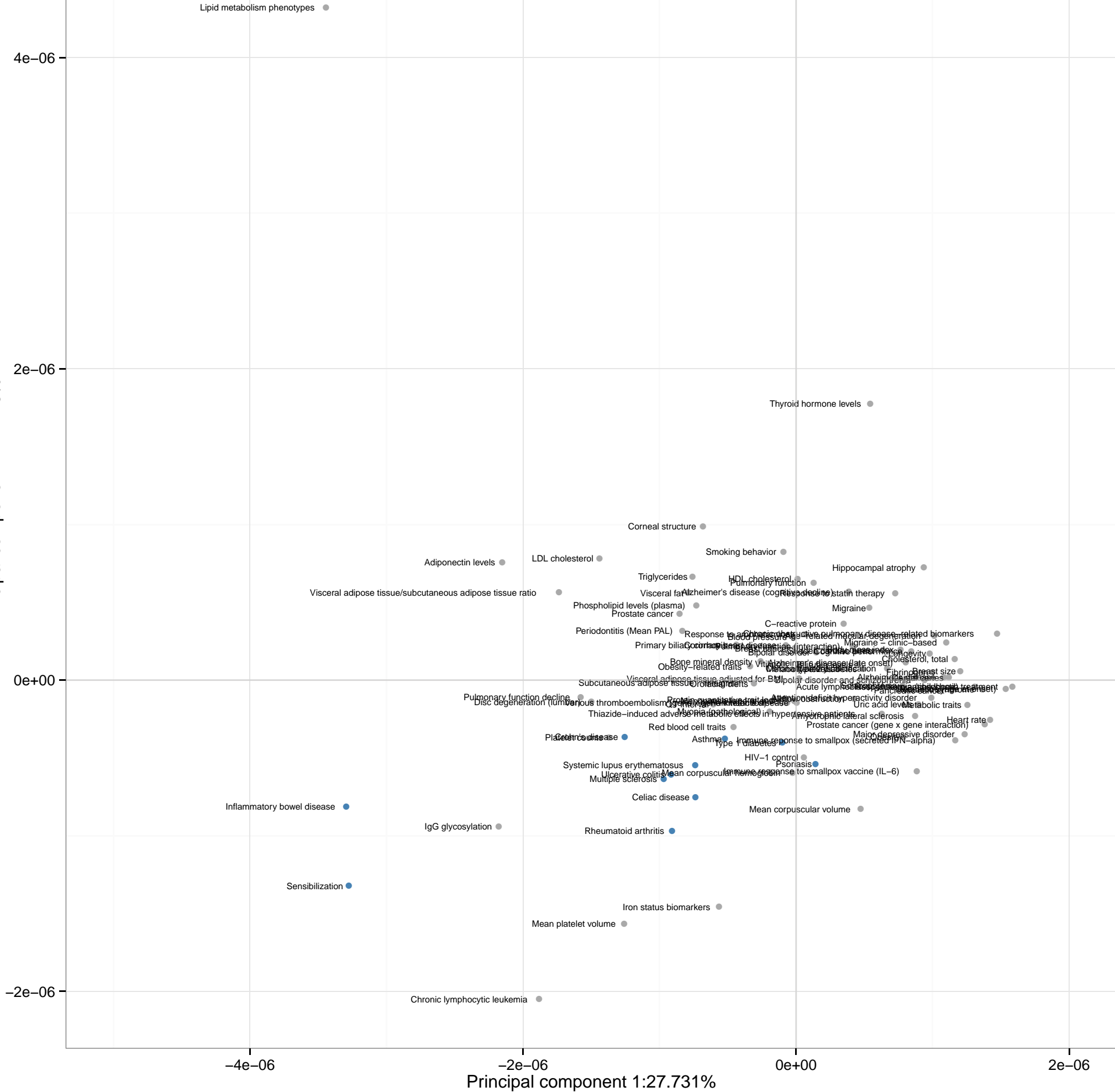
Principal component 1:10.856%

Principal Component 2

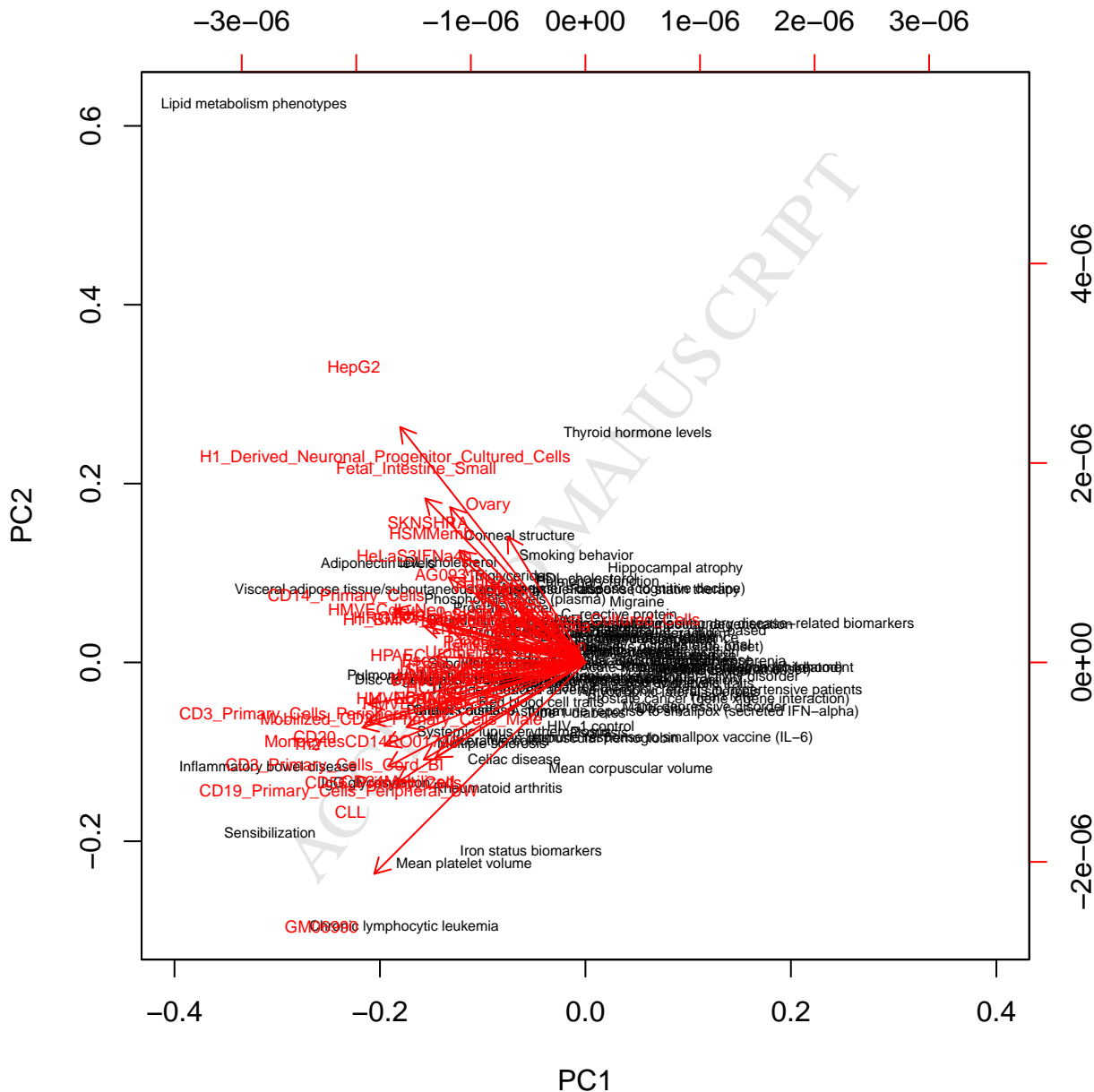


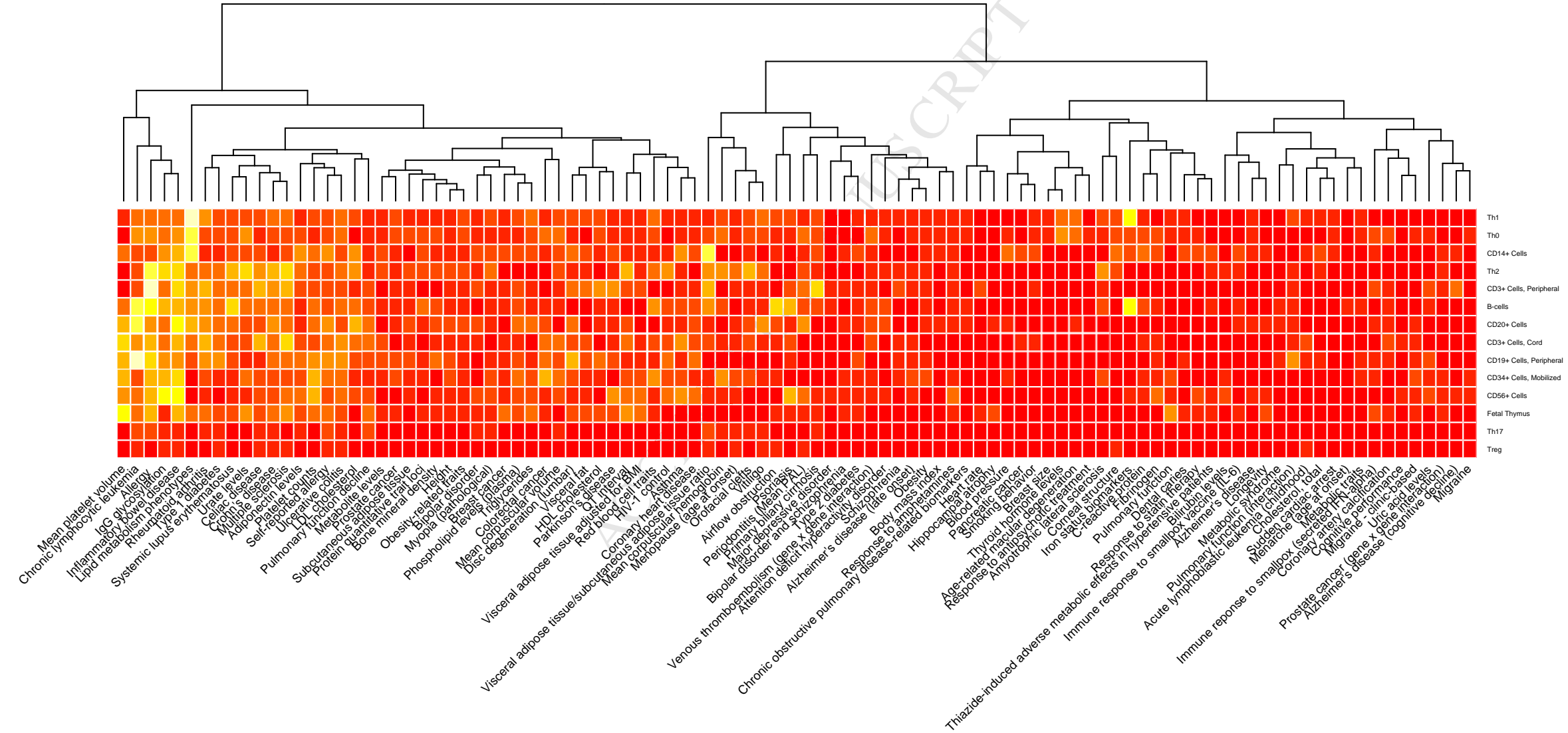
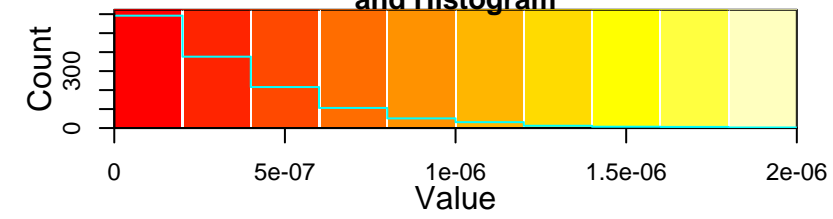
Principal Component 1

Principal component 2:11.715%



Principal component 1:27.731%





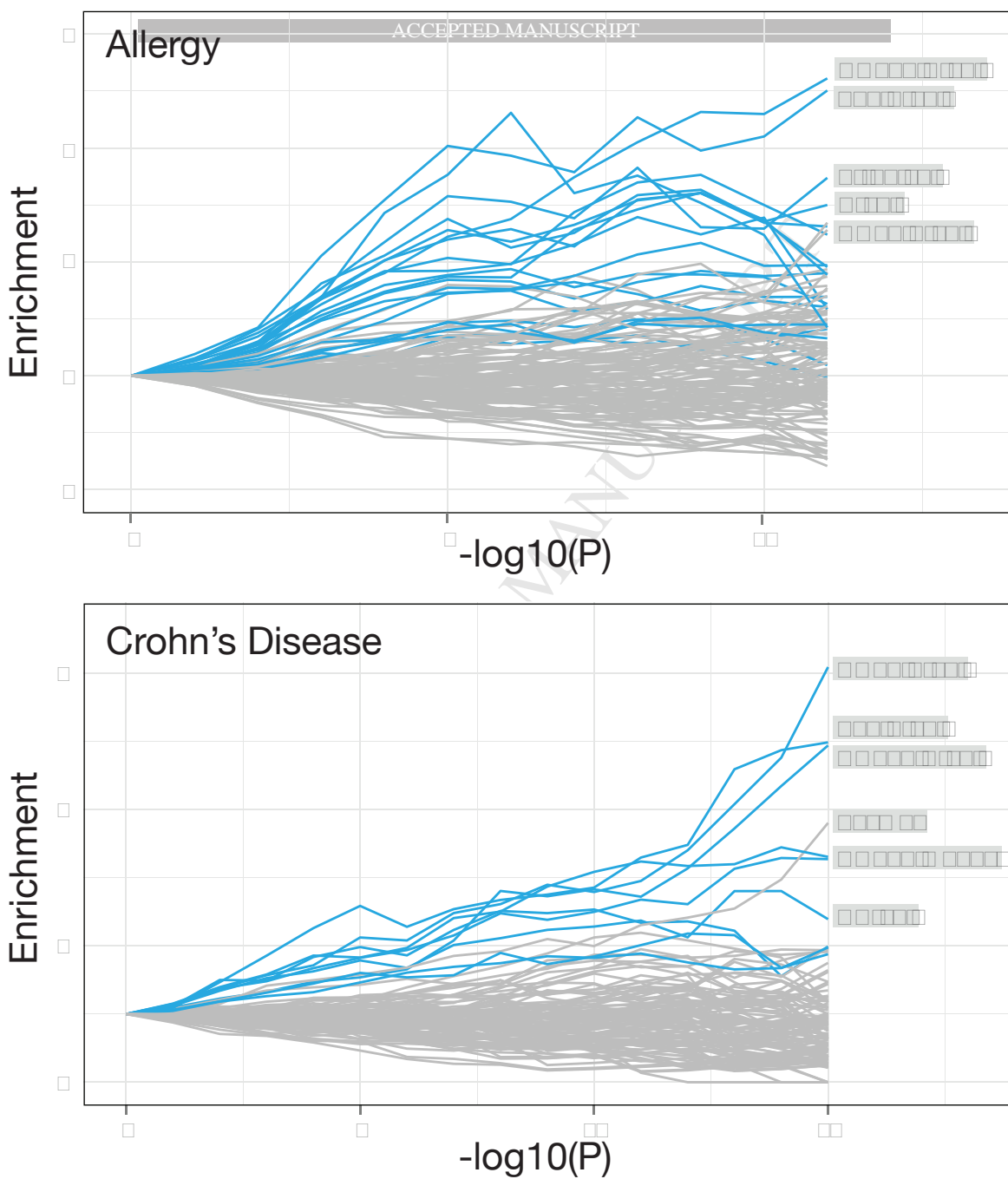
Allergy

Enrichment

 $-\log_{10}(P)$

Crohn's Disease

Enrichment

 $-\log_{10}(P)$ 

Principal component 1:87.66%

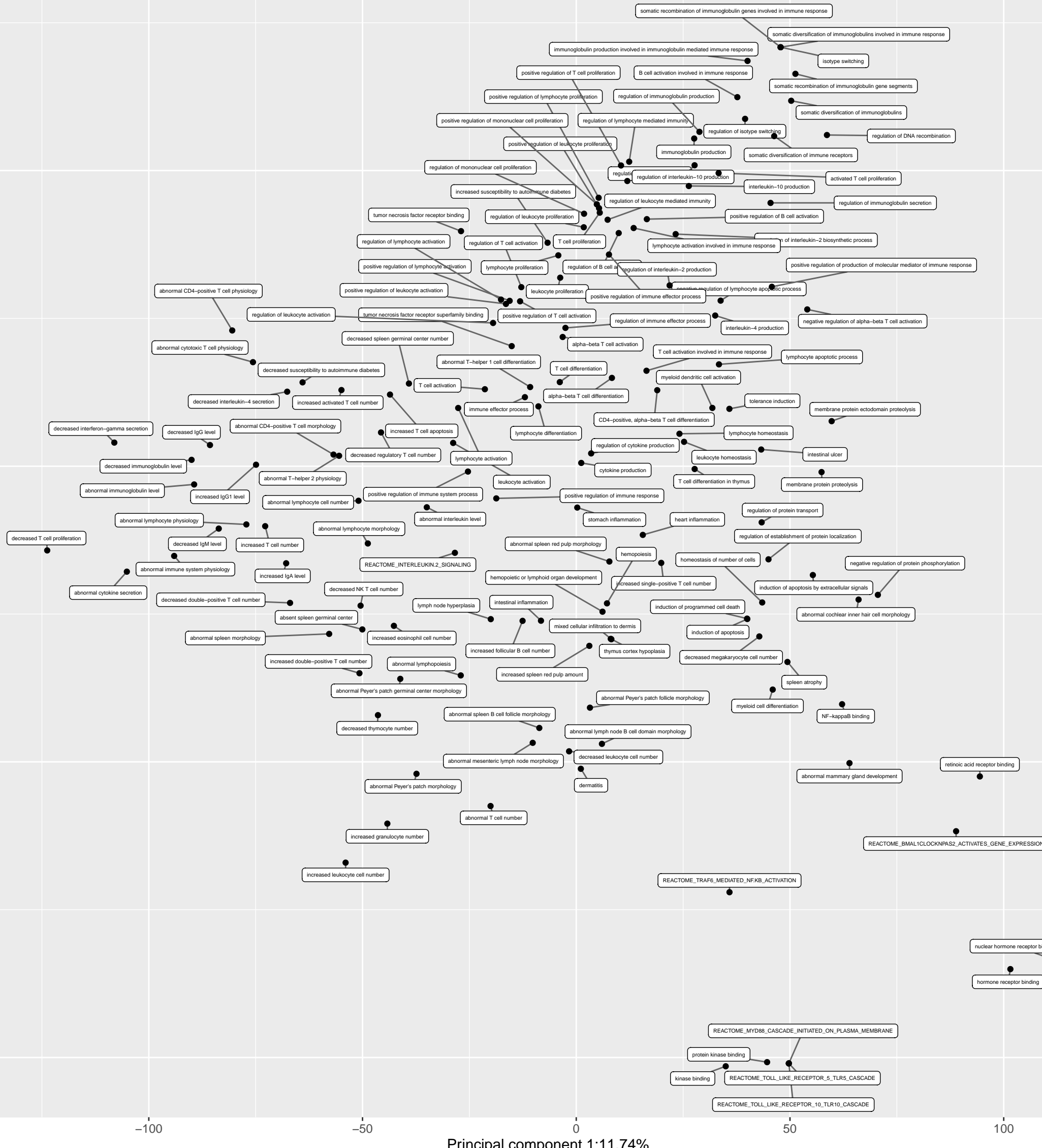
50

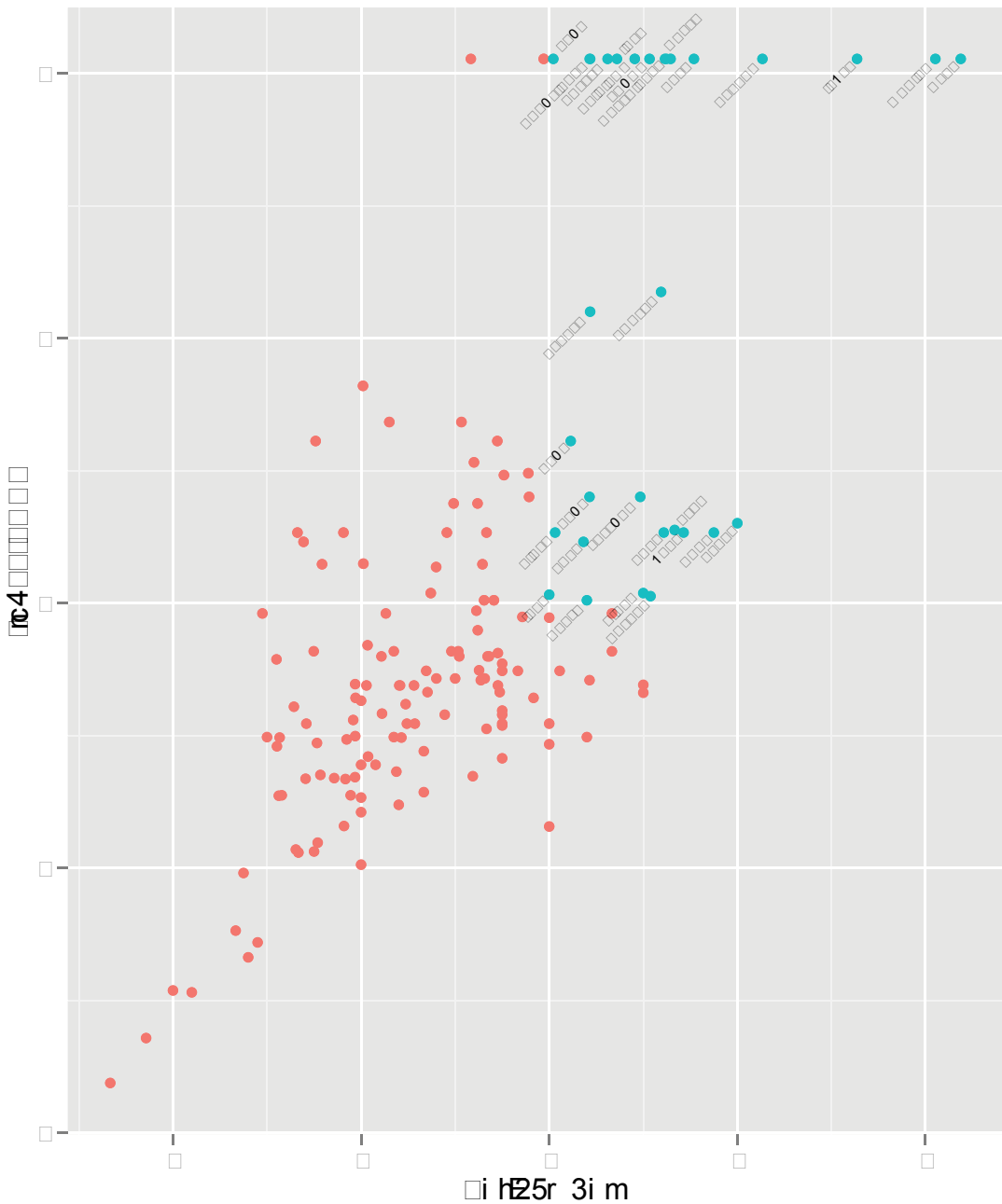
0

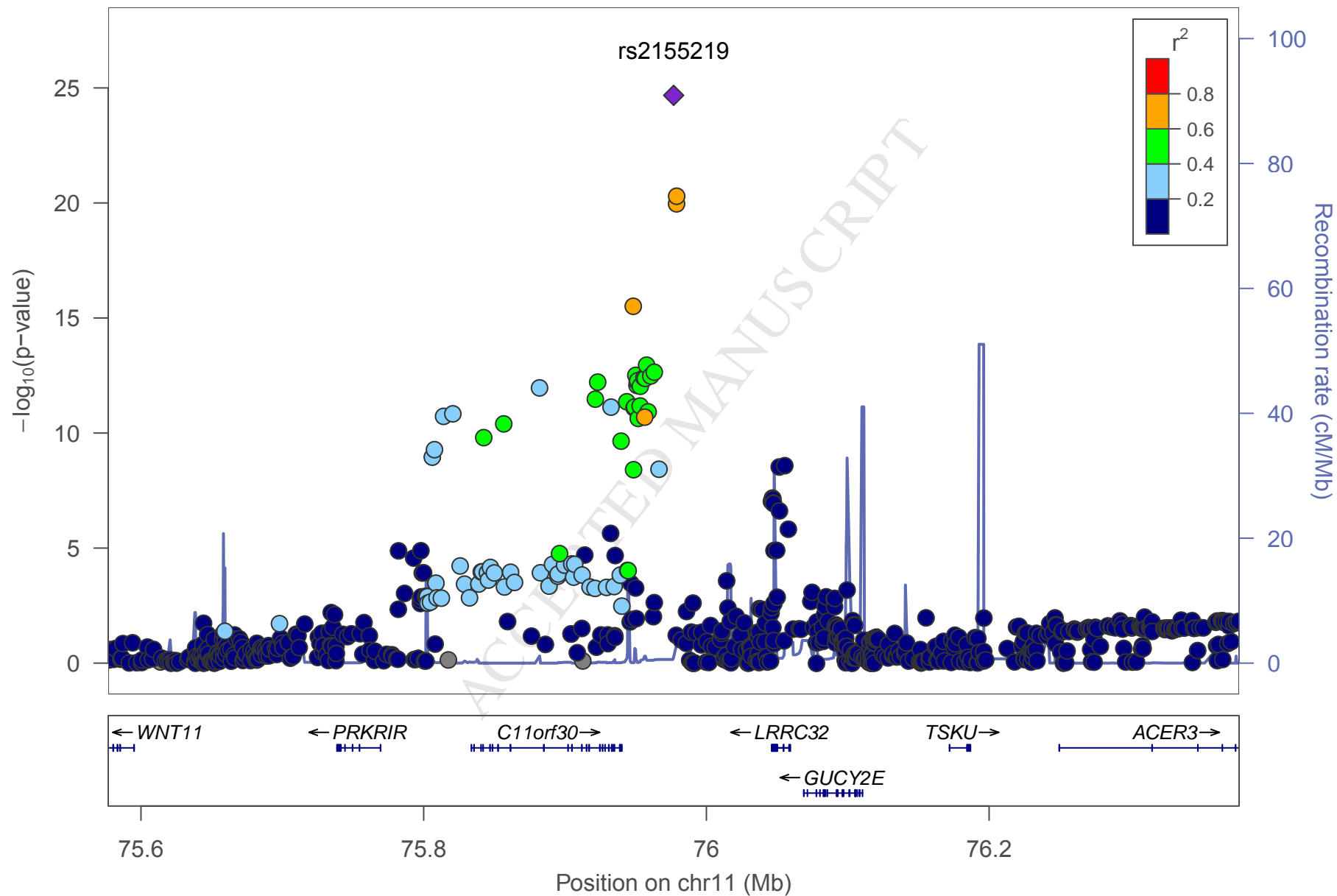
-50

-100

Principal component 1:11.74%







date: Tue Jun 24 05:24:41 2014

build: hg18

display range: chr11:75576842–76376842 [75576842–76376842]

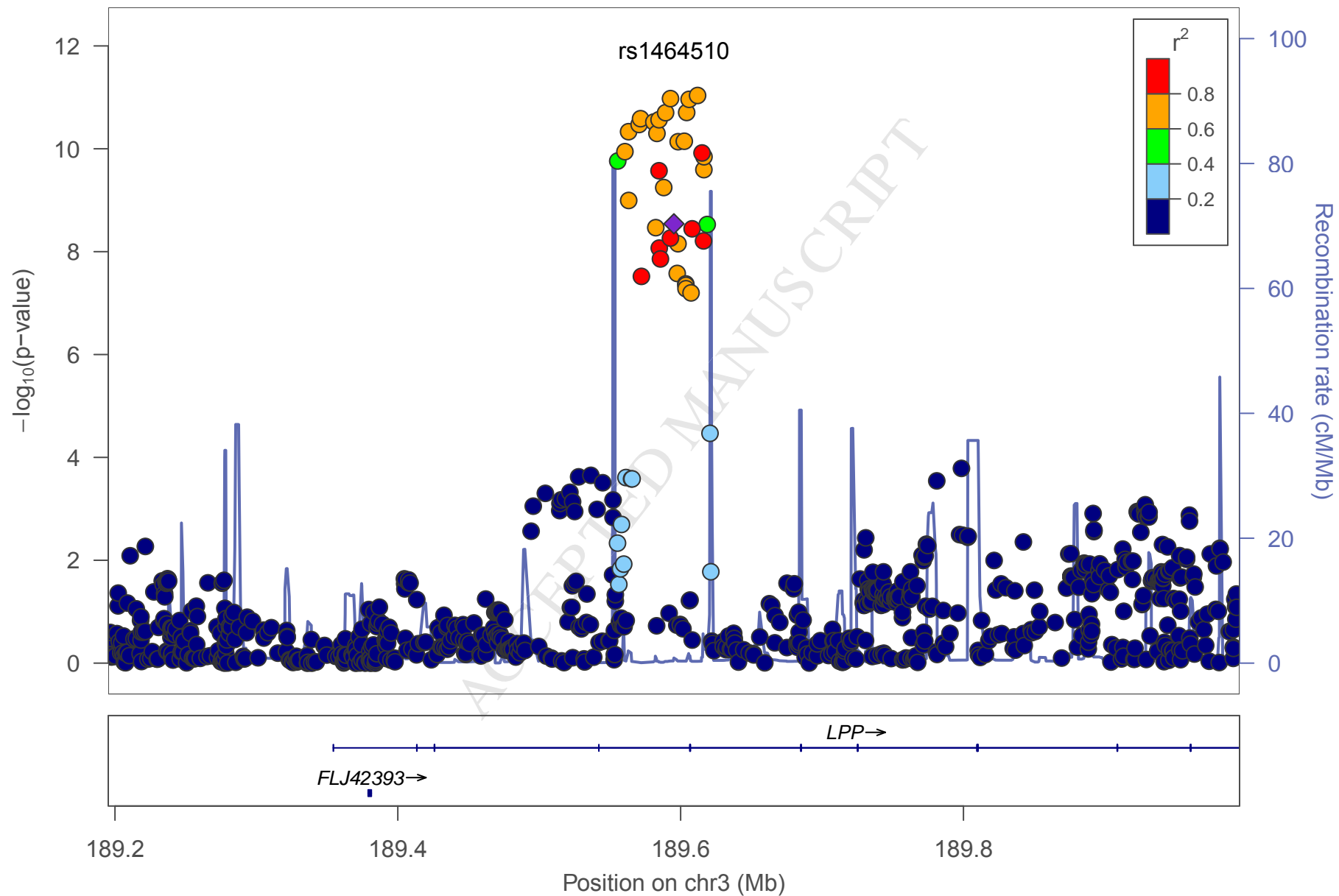
hilit range: 0 – 0 [0 – 0]

reference SNP: chr11:75976842

number of SNPs plotted: 664

max P.value: 2.11E–25 [chr11:75976842]

min P.value: 10E–1 [chr11:76077902]



date: Tue Jun 24 05:29:23 2014

build: hg18

display range: chr3:189195248–189995248 [189195248–189995248]

hilit range: 0 – 0 [0 – 0]

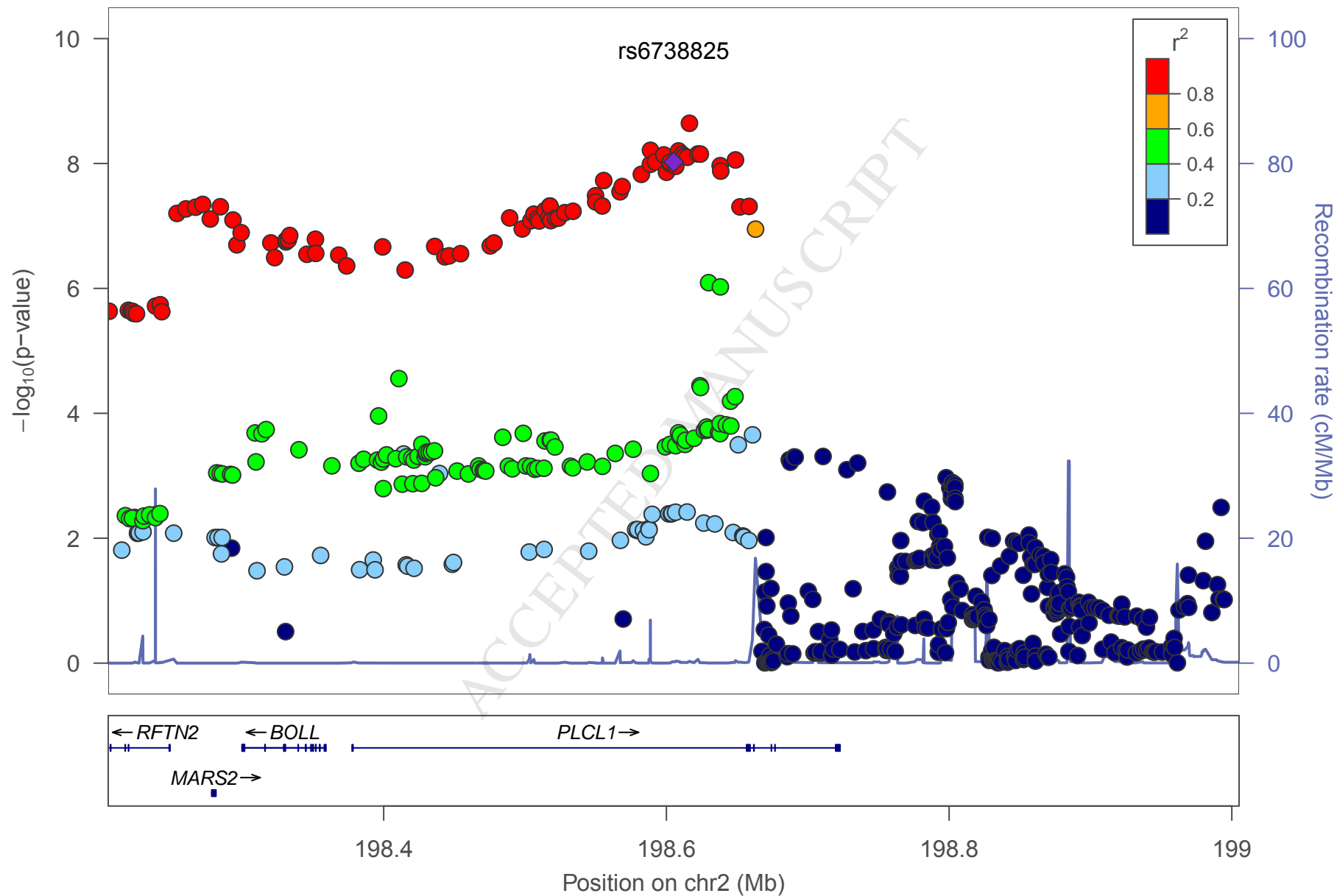
reference SNP: chr3:189595248

number of SNPs plotted: 782

max P.value: $9.15\text{E}-12$ [chr3:189611673]

min P.value: $9.98\text{E}-1$ [chr3:189370256]

ACCEPTED MANUSCRIPT



date: Tue Jun 24 05:33:00 2014

build: hg18

display range: chr2:198205140–199005140 [198205140–199005140]

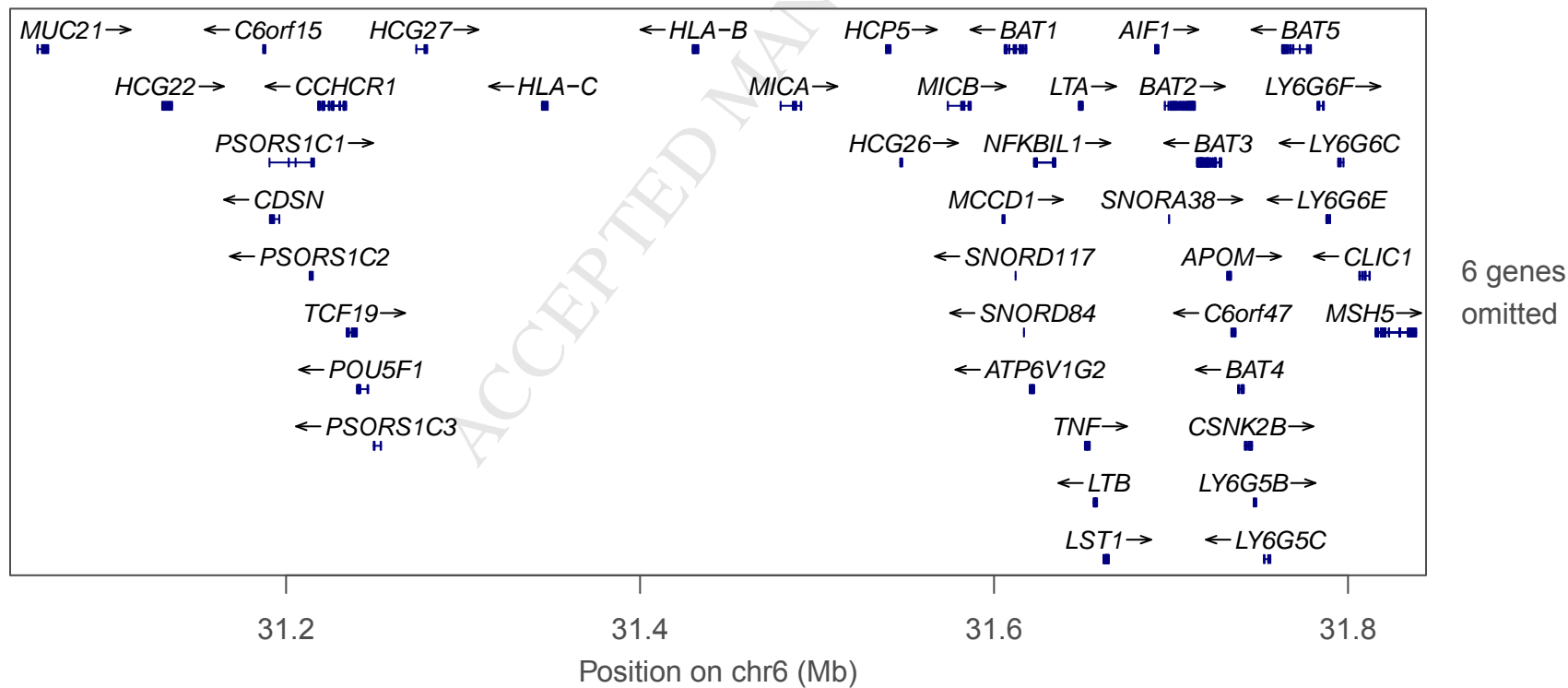
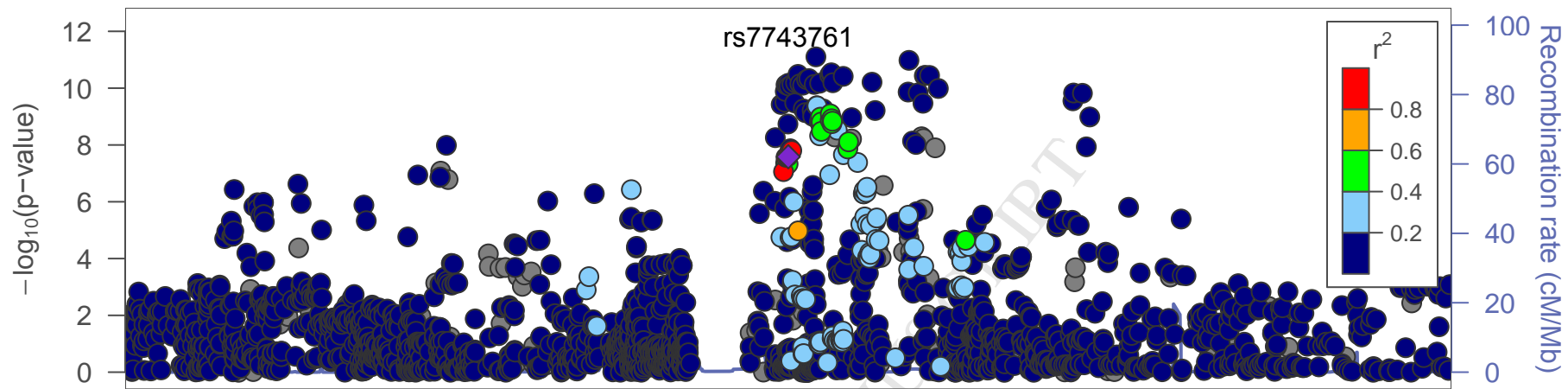
hilit range: 0 – 0 [0 – 0]

reference SNP: chr2:198605140

number of SNPs plotted: 506

max P.value: 2.25E–9 [chr2:198616285]

min P.value: 9.82E–1 [chr2:198669634]



date: Tue Jun 24 05:36:47 2014

build: hg18

display range: chr6:31044079–31844079 [31044079–31844079]

hilit range: 0 – 0 [0 – 0]

reference SNP: chr6:31444079

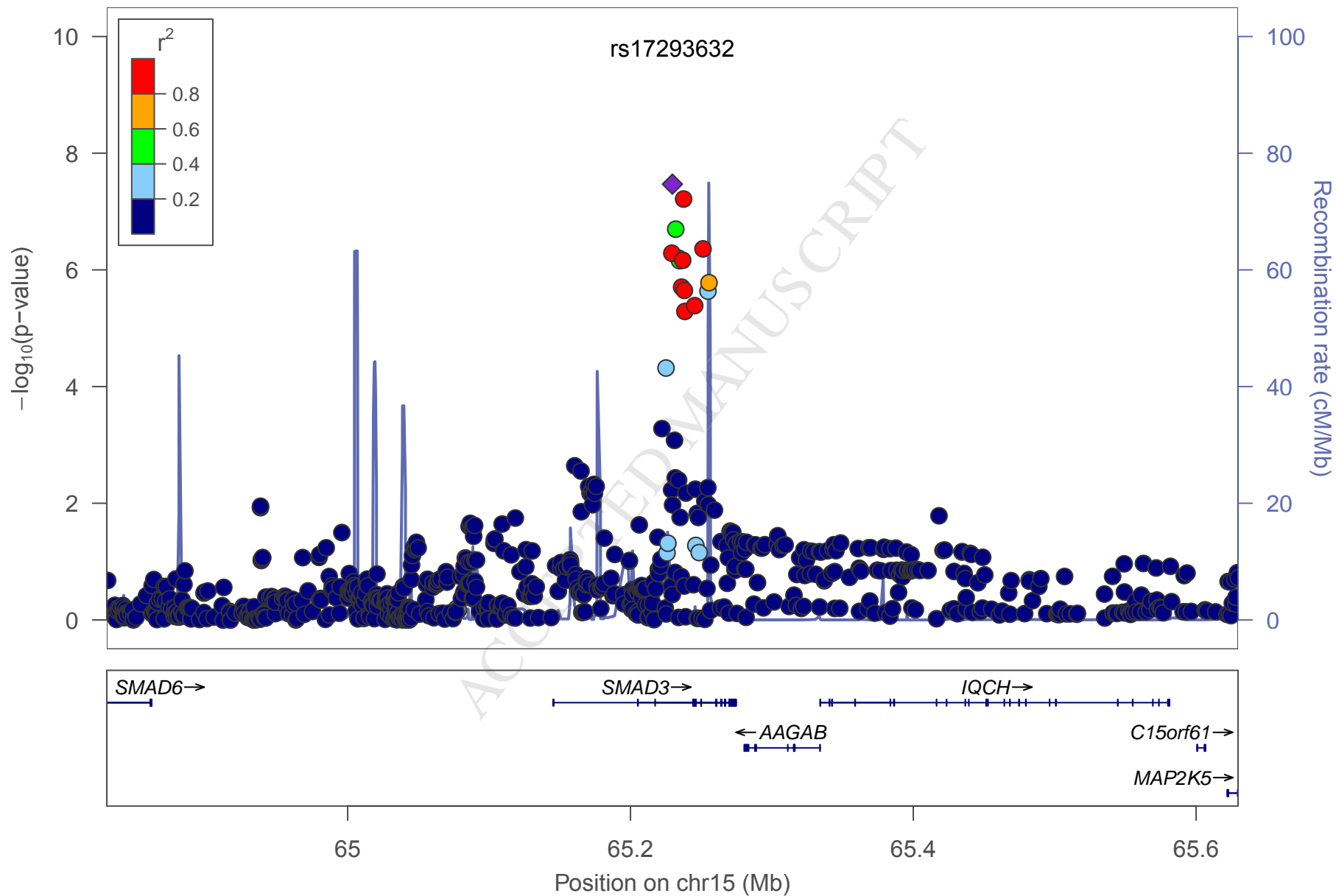
number of SNPs plotted: 2001

max P.value: $7.8E-12$ [chr6:31460092]

min P.value: $9.99E-1$ [chr6:31240064]

omitted Genes: NCR3, LY6G6D, C6orf25

omitted Genes: DDAH2, C6orf26, C6orf27



date: Tue Jun 24 05:39:41 2014

build: hg18

display range: chr15:64829650–65629650 [64829650–65629650]

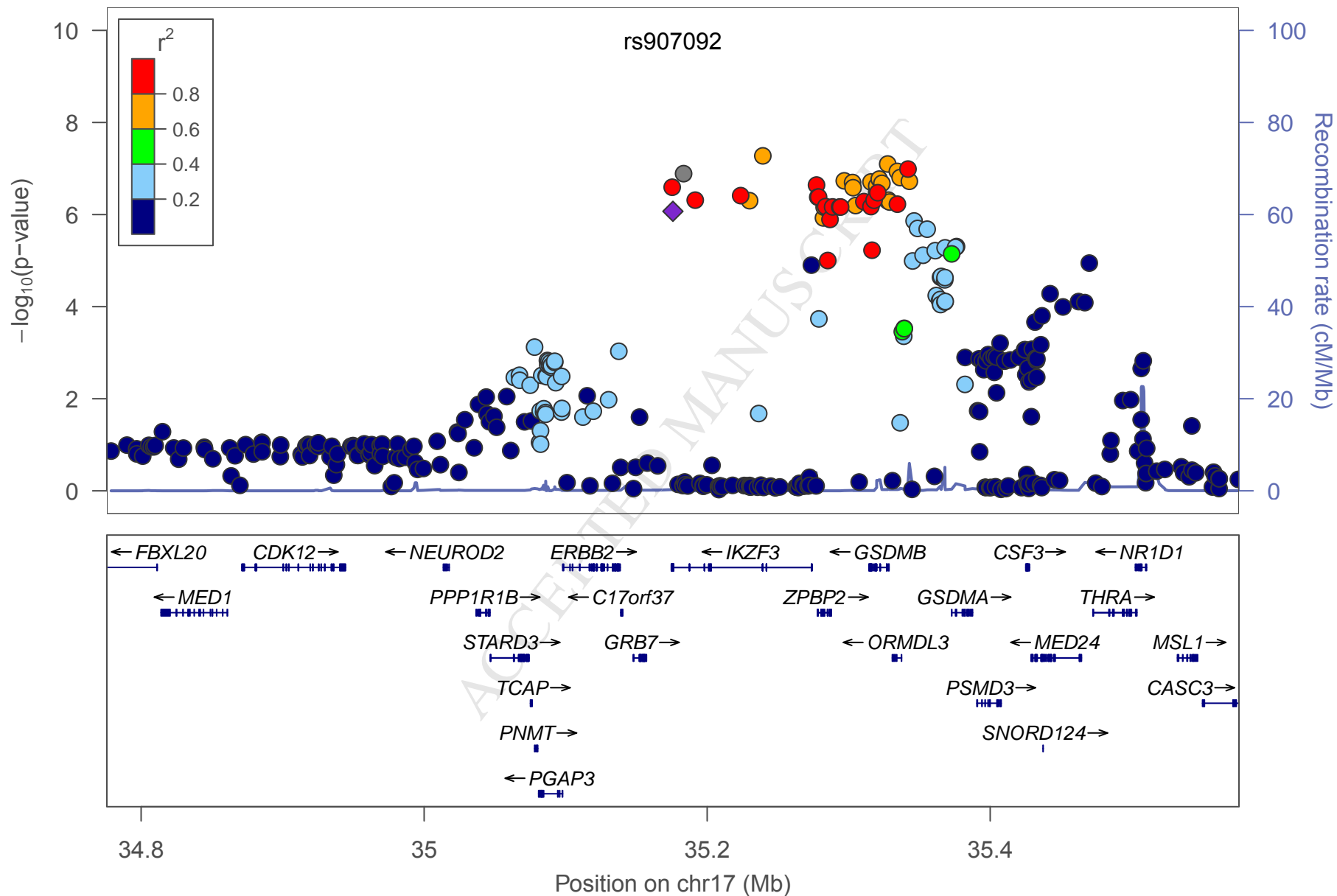
hilit range: 0 – 0 [0 – 0]

reference SNP: chr15:65229650

number of SNPs plotted: 737

max P.value: 3.39E–8 [chr15:65229650]

min P.value: 9.98E–1 [chr15:64917040]



date: Tue Jun 24 05:42:52 2014

build: hg18

display range: chr17:34775785–35575785 [34775785–35575785]

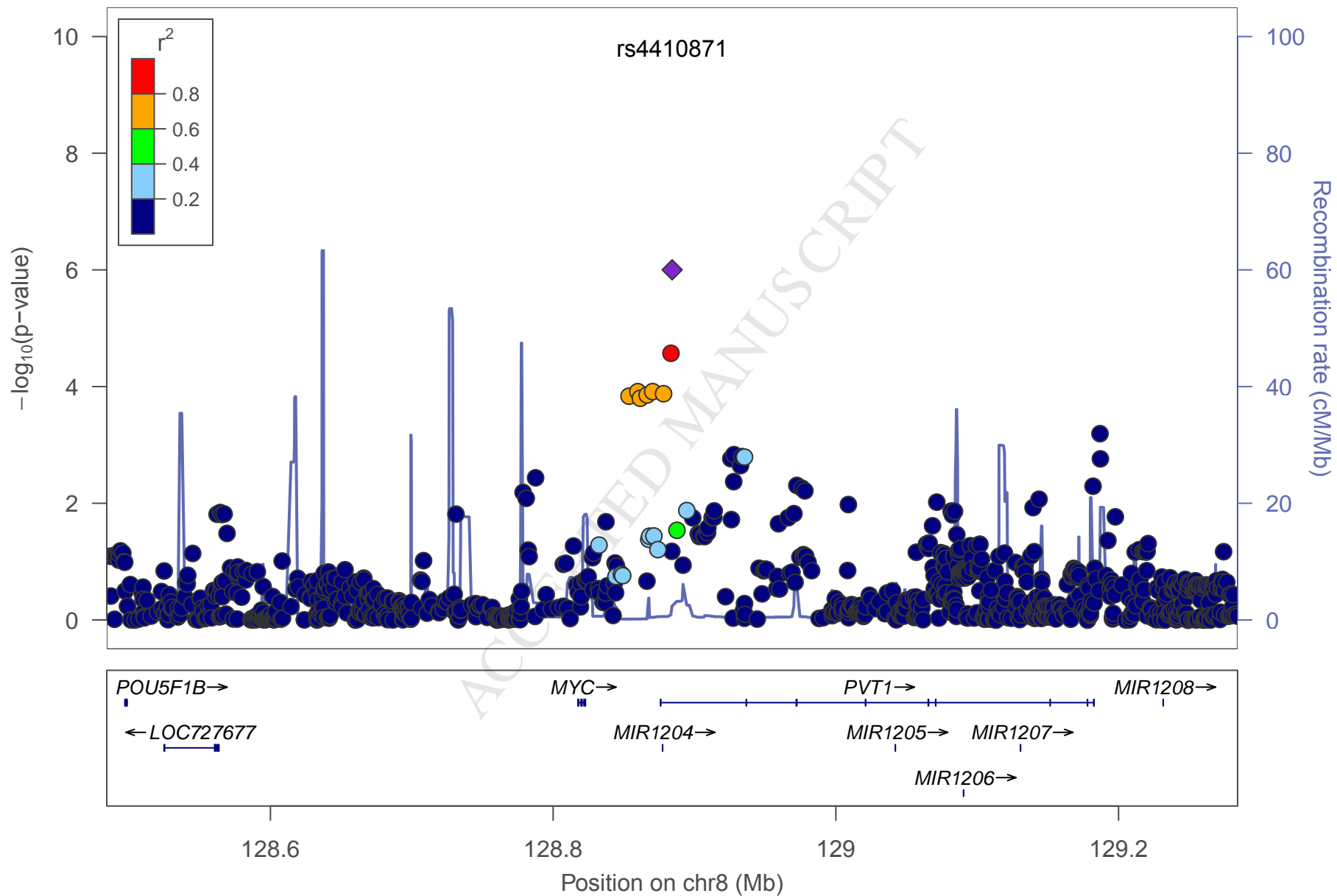
hilit range: 0 – 0 [0 – 0]

reference SNP: chr17:35175785

number of SNPs plotted: 326

max P.value: 5.3E–8 [chr17:35239327]

min P.value: 9.32E–1 [chr17:35208284]



date: Tue Jun 24 06:24:05 2014

build: hg18

display range: chr8:128484211–129284211 [128484211–129284211]

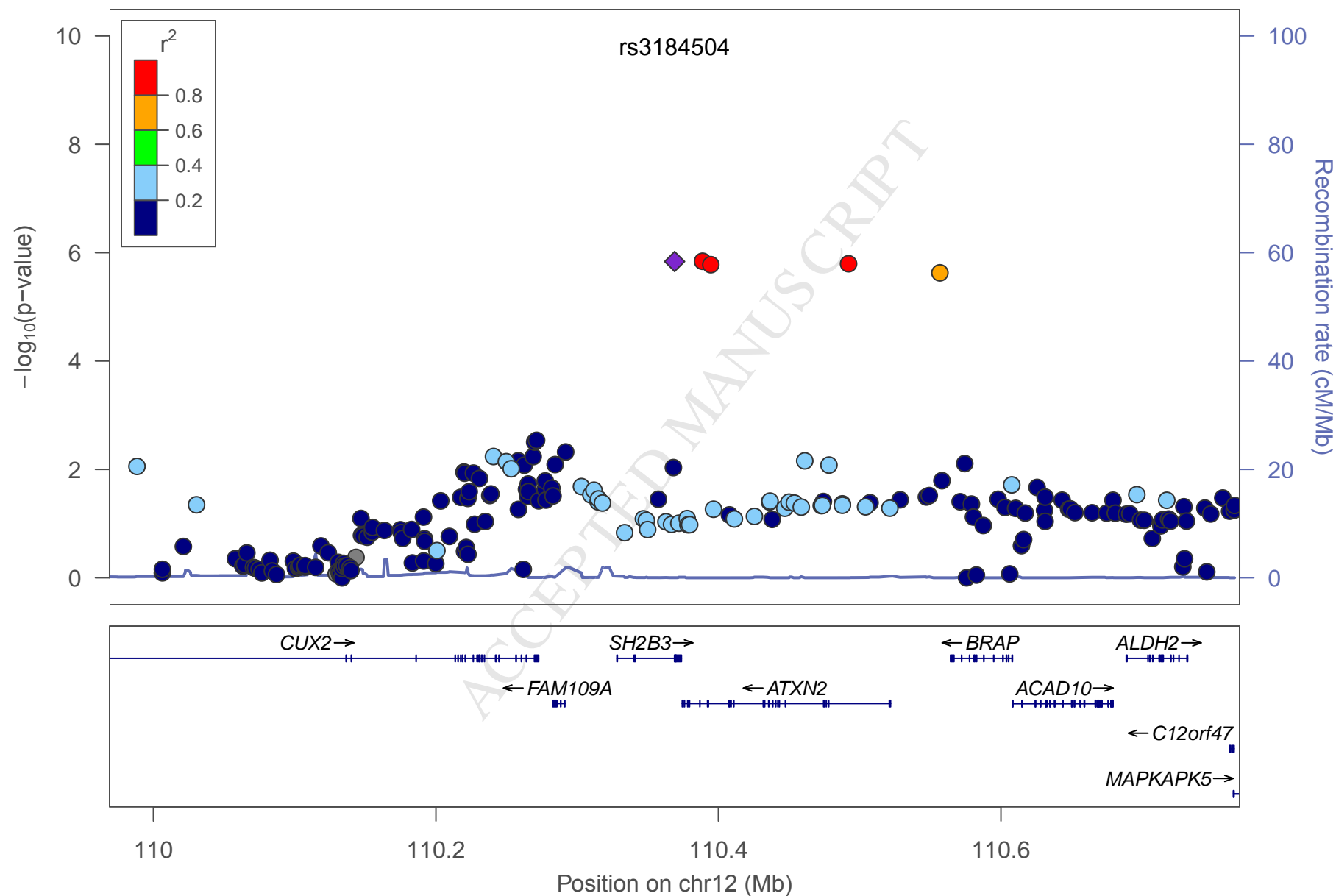
hilit range: 0 – 0 [0 – 0]

reference SNP: chr8:128884211

number of SNPs plotted: 922

max P.value: $9.97\text{E}-7$ [chr8:128884211]

min P.value: $10\text{E}-1$ [chr8:128660128]



date: Tue Jun 24 06:25:11 2014

build: hg18

display range: chr12:109968991–110768991 [109968991–110768991]

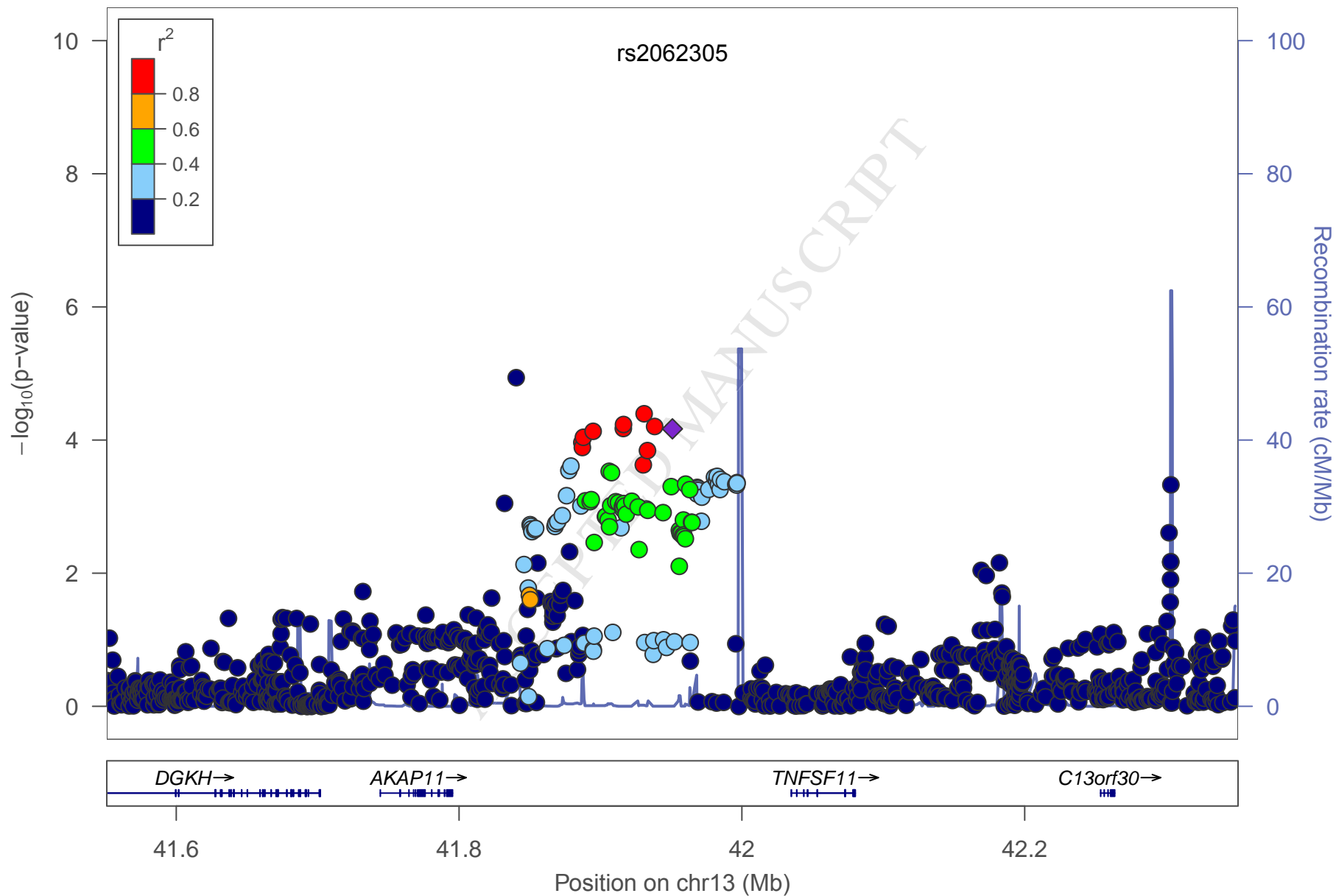
hilit range: 0 – 0 [0 – 0]

reference SNP: chr12:110368991

number of SNPs plotted: 194

max P.value: 1.44E–6 [chr12:110388754]

min P.value: 9.97E–1 [chr12:110575739]



date: Tue Jun 24 06:26:25 2014

build: hg18

display range: chr13:41550880–42350880 [41550880–42350880]

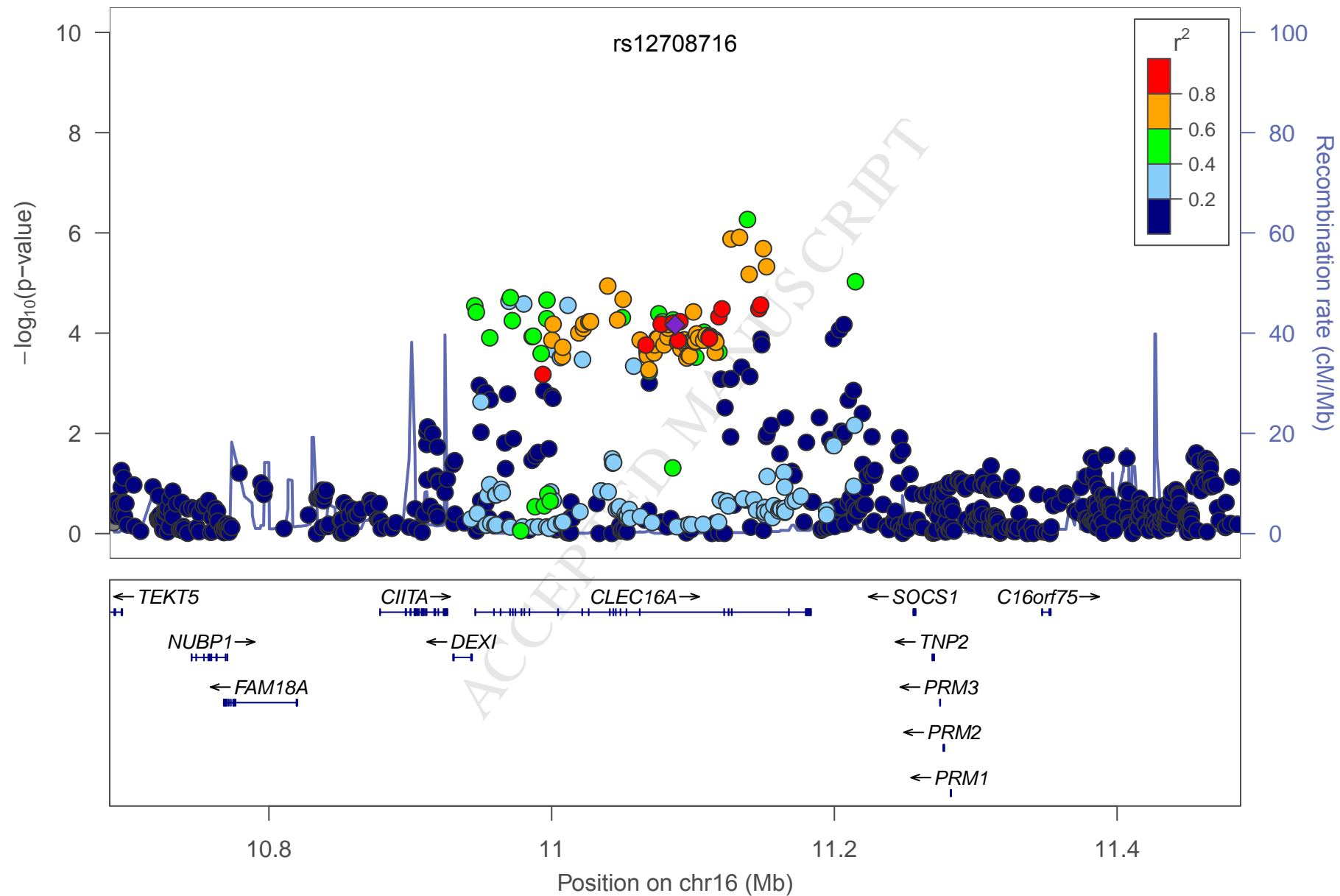
hilit range: 0 – 0 [0 – 0]

reference SNP: chr13:41950880

number of SNPs plotted: 959

max P.value: 1.15E–5 [chr13:41840263]

min P.value: 9.98E–1 [chr13:41997648]



date: Tue Jun 24 06:27:25 2014

build: hg18

display range: chr16:10687374–11487374 [10687374–11487374]

hilit range: 0 – 0 [0 – 0]

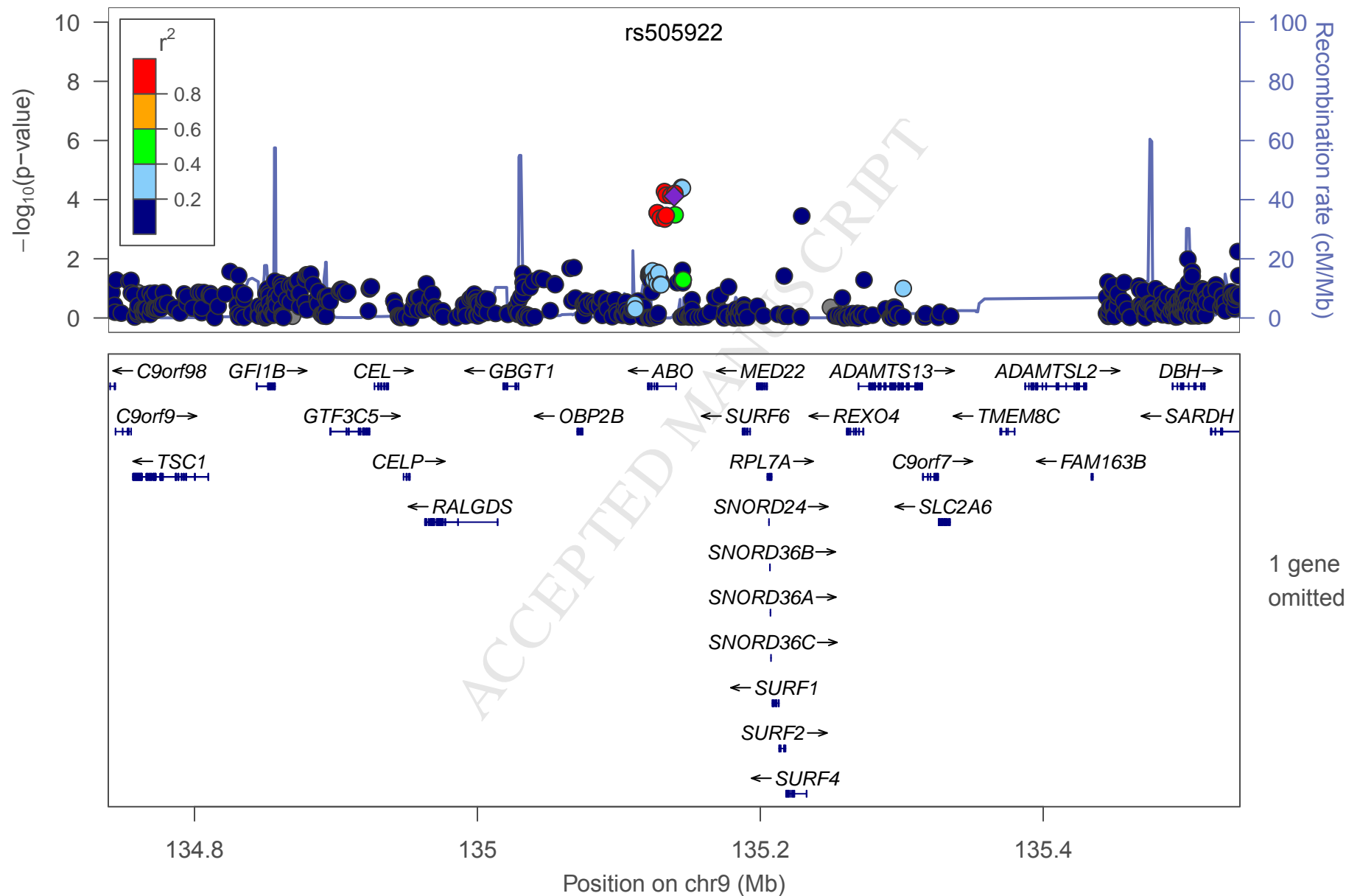
reference SNP: chr16:11087374

number of SNPs plotted: 755

max P.value: 5.41E–7 [chr16:11138204]

min P.value: 9.98E–1 [chr16:10833635]

ACCEPTED MANUSCRIPT



date: Tue Jun 24 06:28:30 2014

build: hg18

display range: chr9:134739050–135539050 [134739050–135539050]

hilit range: 0 – 0 [0 – 0]

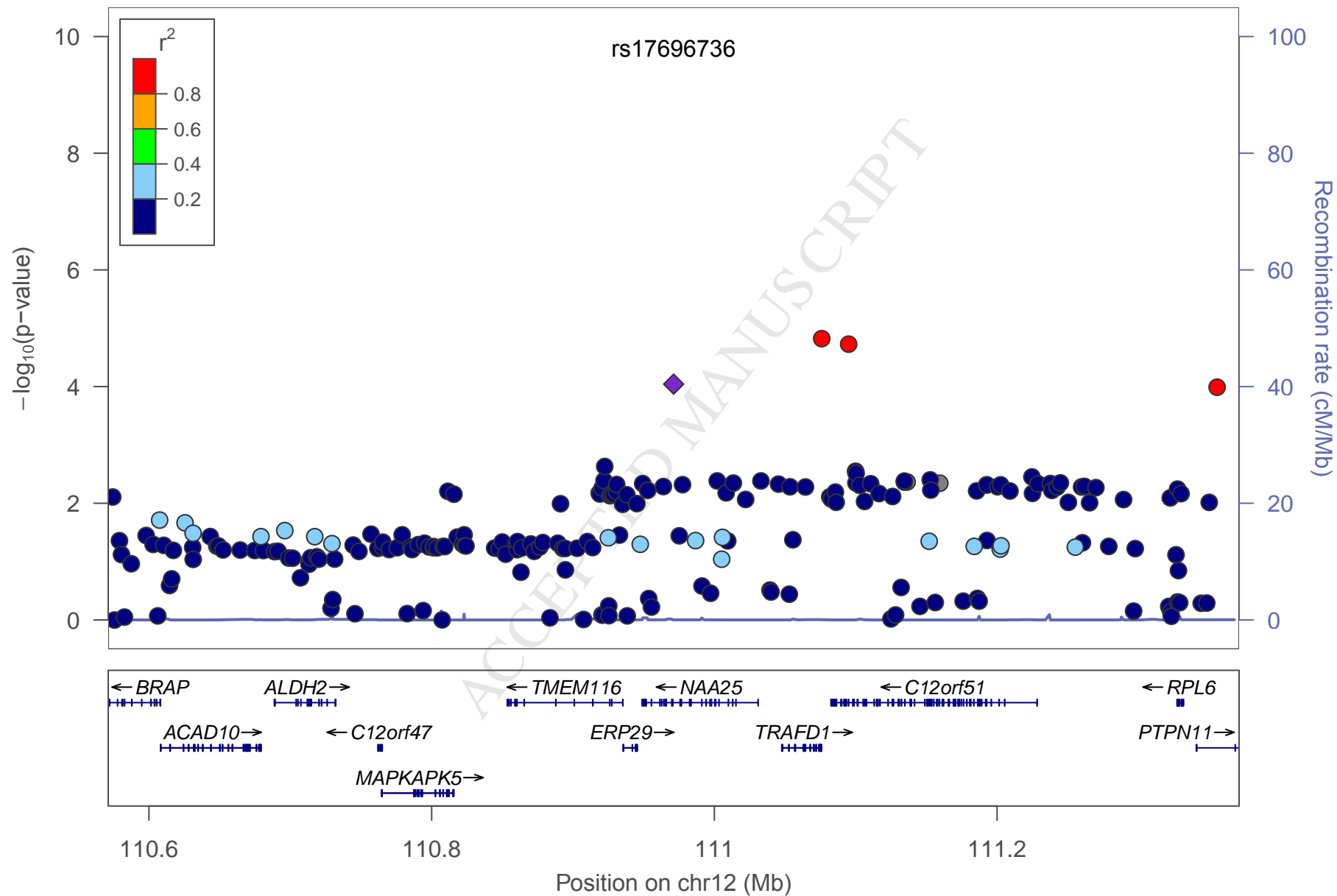
reference SNP: chr9:135139050

number of SNPs plotted: 583

max P.value: $3.85E-5$ [chr9:135144125]

min P.value: $10E-1$ [chr9:135121136]

omitted Genes: C9orf96



date: Tue Jun 24 06:29:26 2014

build: hg18

display range: chr12:110571201–111371201 [110571201–111371201]

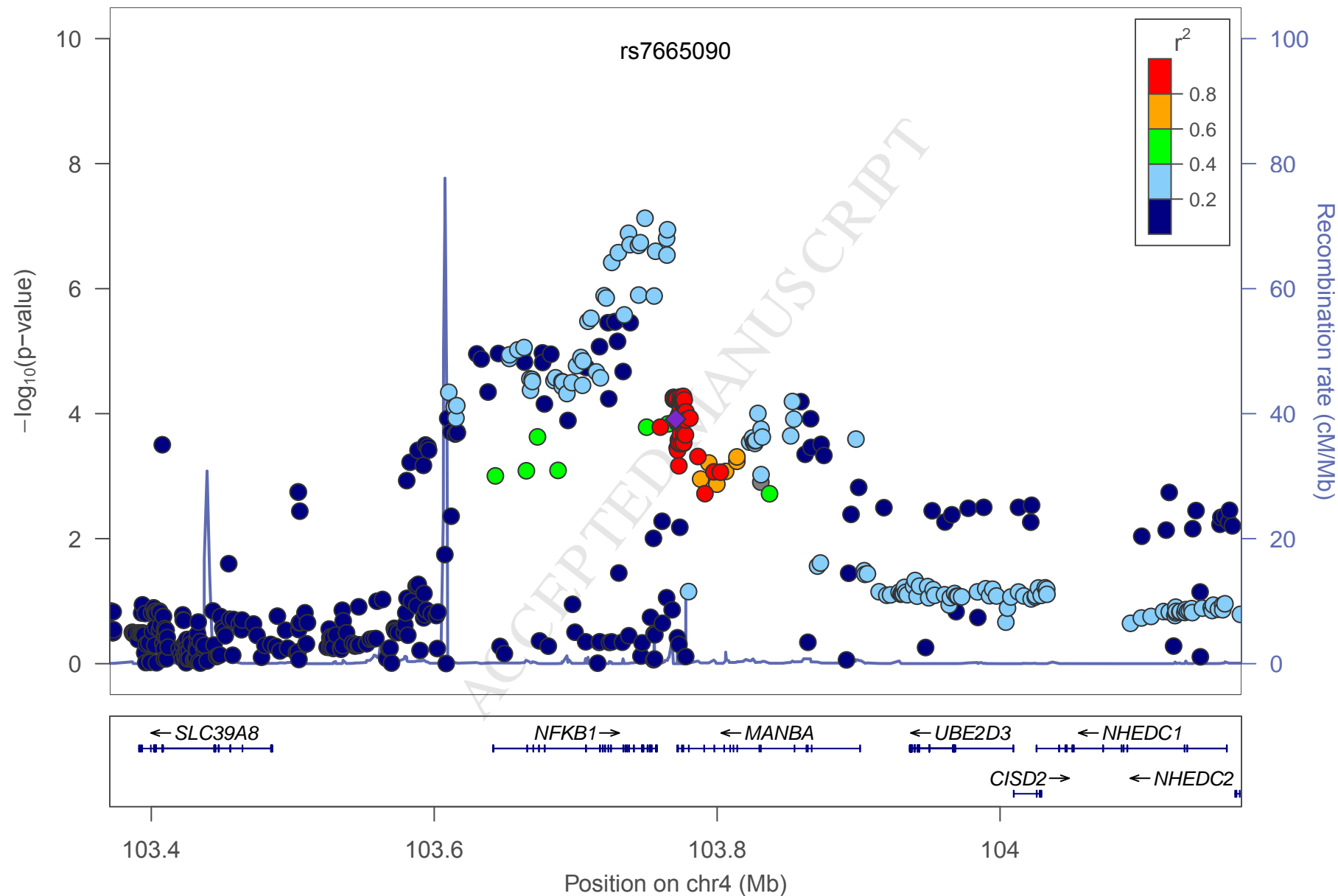
hilit range: 0 – 0 [0 – 0]

reference SNP: chr12:110971201

number of SNPs plotted: 214

max P.value: 1.5E–5 [chr12:111076069]

min P.value: 9.97E–1 [chr12:110575739]



date: Tue Jun 24 06:31:23 2014

build: hg18

display range: chr4:103370651–104170651 [103370651–104170651]

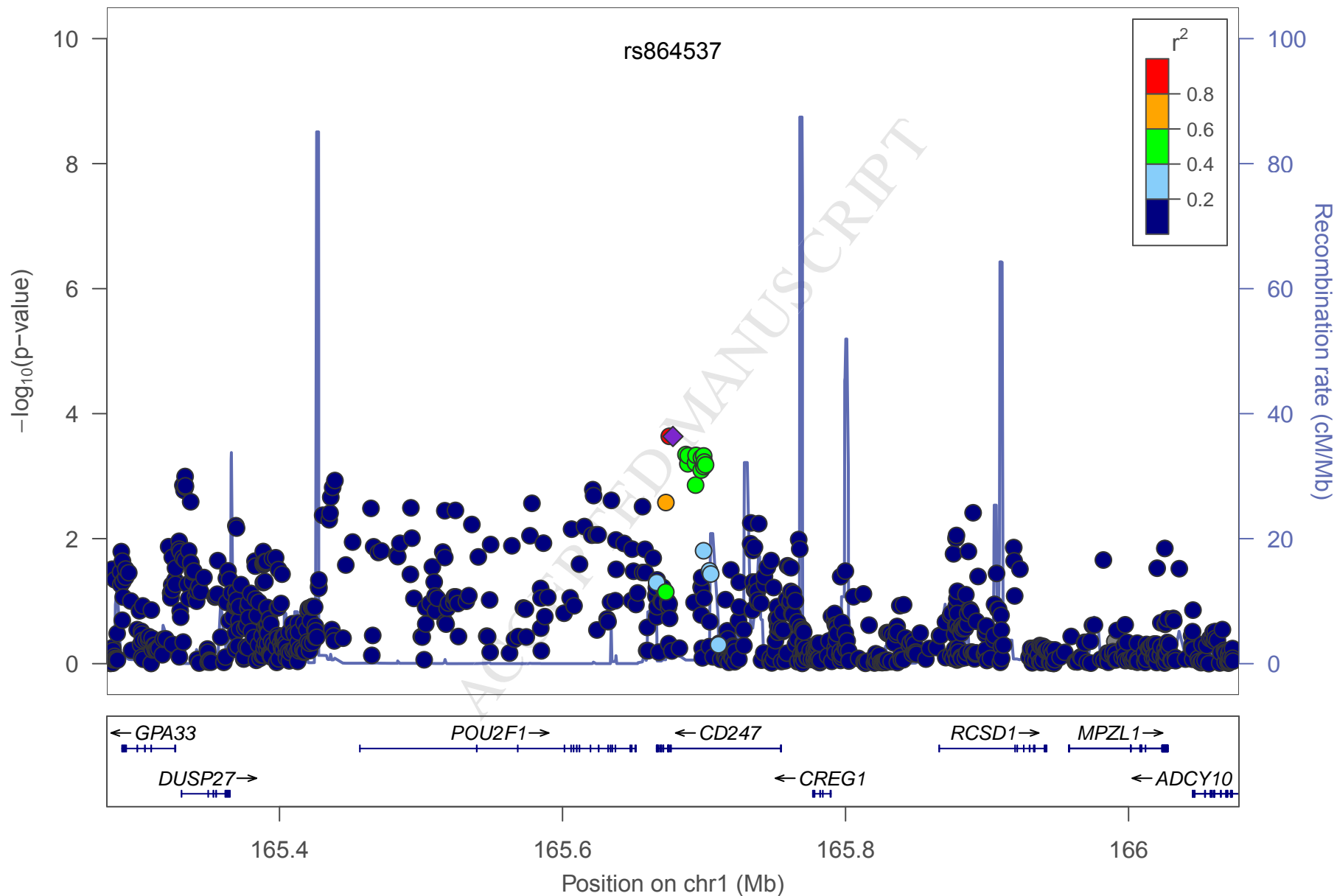
hilit range: 0 – 0 [0 – 0]

reference SNP: chr4:103770651

number of SNPs plotted: 506

max P.value: 7.44E–8 [chr4:103749001]

min P.value: 9.91E–1 [chr4:103608433]



date: Tue Jun 24 06:33:41 2014

build: hg18

display range: chr1:165278008–166078008 [165278008–166078008]

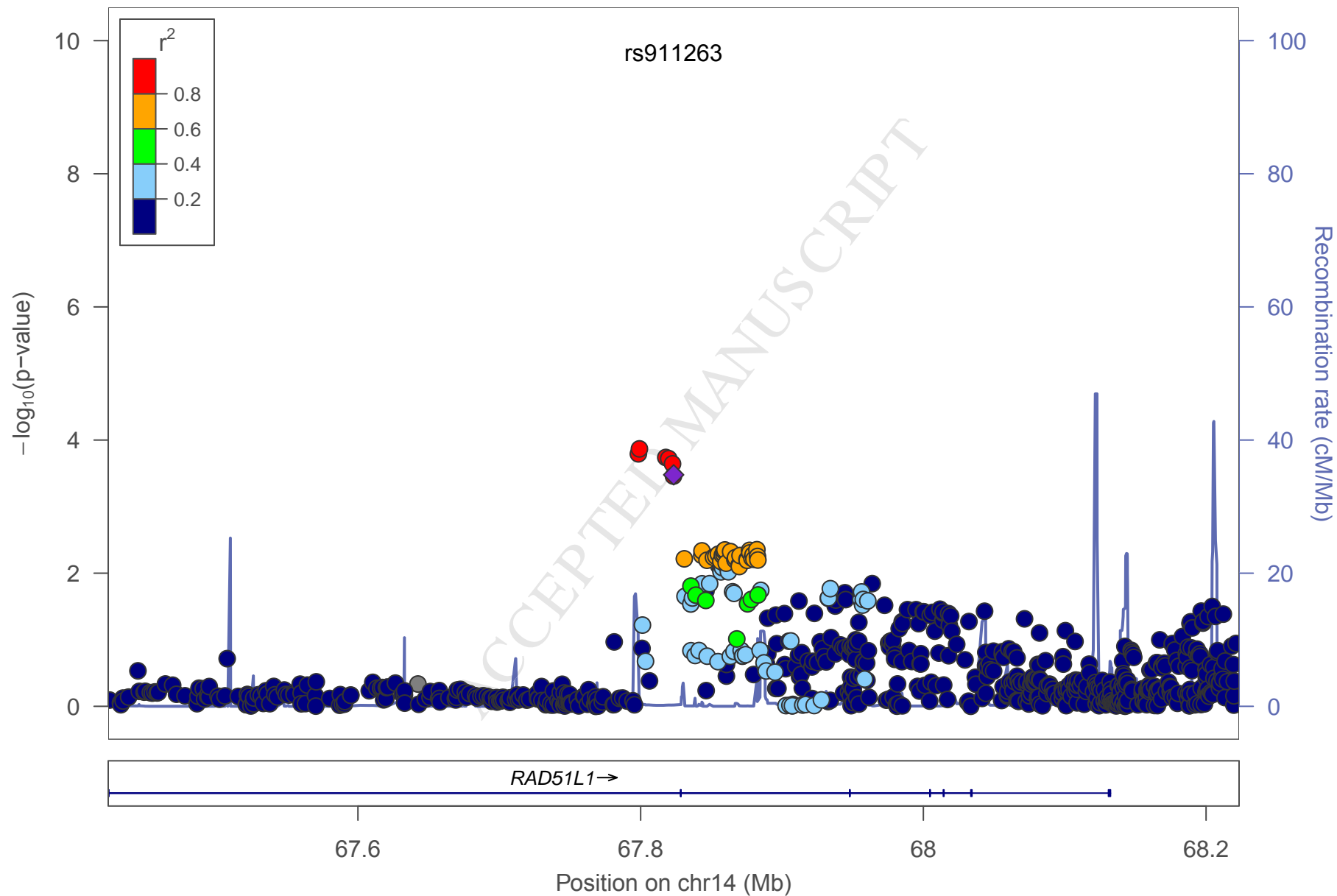
hilit range: 0 – 0 [0 – 0]

reference SNP: chr1:165678008

number of SNPs plotted: 874

max P.value: 2.31E–4 [chr1:165675294]

min P.value: 10E–1 [chr1:166056582]



date: Tue Jun 24 06:35:39 2014

build: hg18

display range: chr14:67423346–68223346 [67423346–68223346]

hilit range: 0 – 0 [0 – 0]

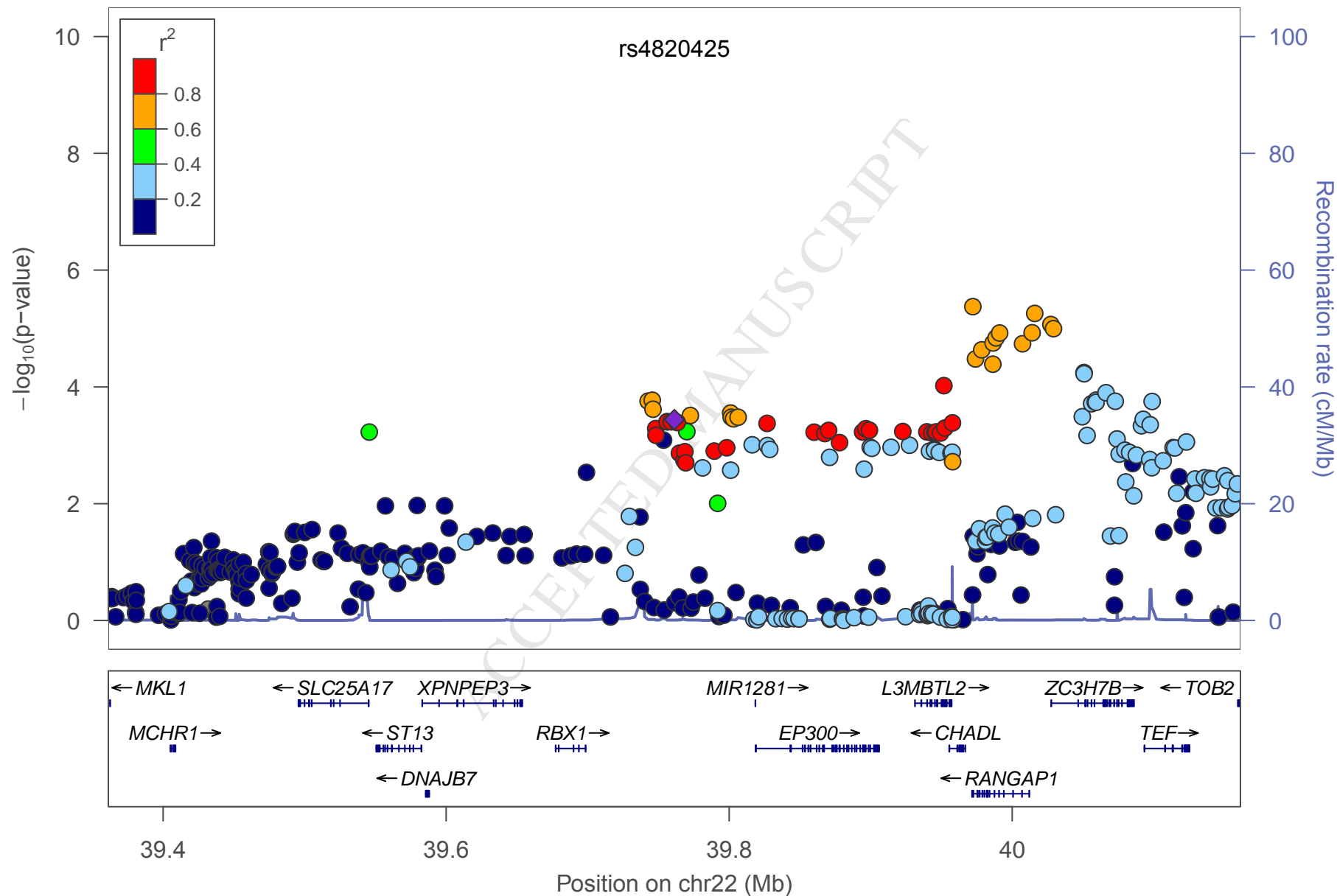
reference SNP: chr14:67823346

number of SNPs plotted: 713

max P.value: 1.36E–4 [chr14:67798977]

min P.value: 9.98E–1 [chr14:67768225]

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date: Tue Jun 24 06:39:27 2014

build: hg18

display range: chr22:39361288–40161288 [39361288–40161288]

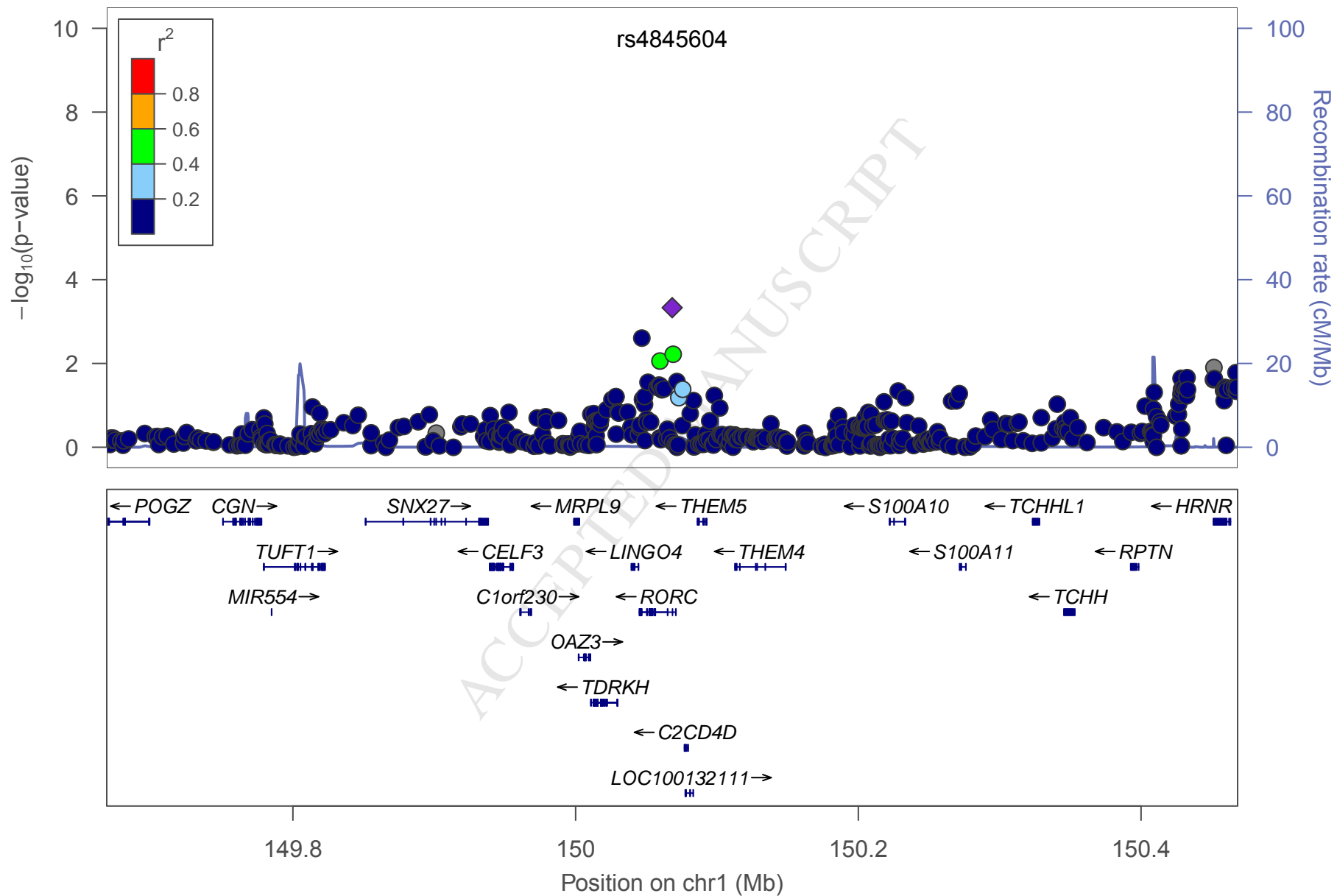
hilit range: 0 – 0 [0 – 0]

reference SNP: chr22:39761288

number of SNPs plotted: 389

max P.value: 4.18E–6 [chr22:39972158]

min P.value: 9.93E–1 [chr22:39880985]



date: Tue Jun 24 06:41:09 2014

build: hg18

display range: chr1:149668304–150468304 [149668304–150468304]

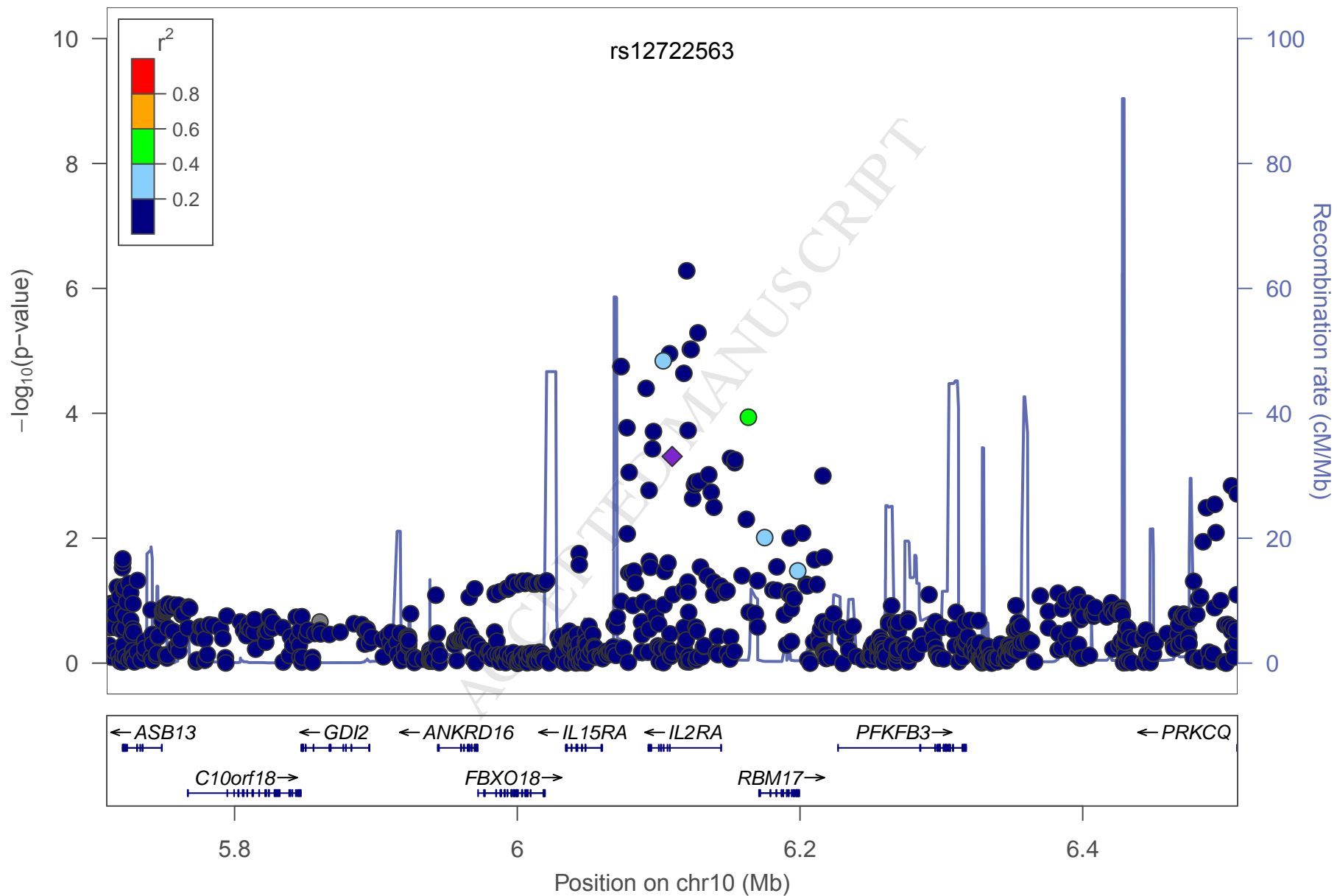
hilit range: 0 – 0 [0 – 0]

reference SNP: chr1:150068304

number of SNPs plotted: 446

max P.value: 4.67E–4 [chr1:150068304]

min P.value: 9.99E–1 [chr1:150176878]



date: Tue Jun 24 06:42:40 2014

build: hg18

display range: chr10:5709567–6509567 [5709567–6509567]

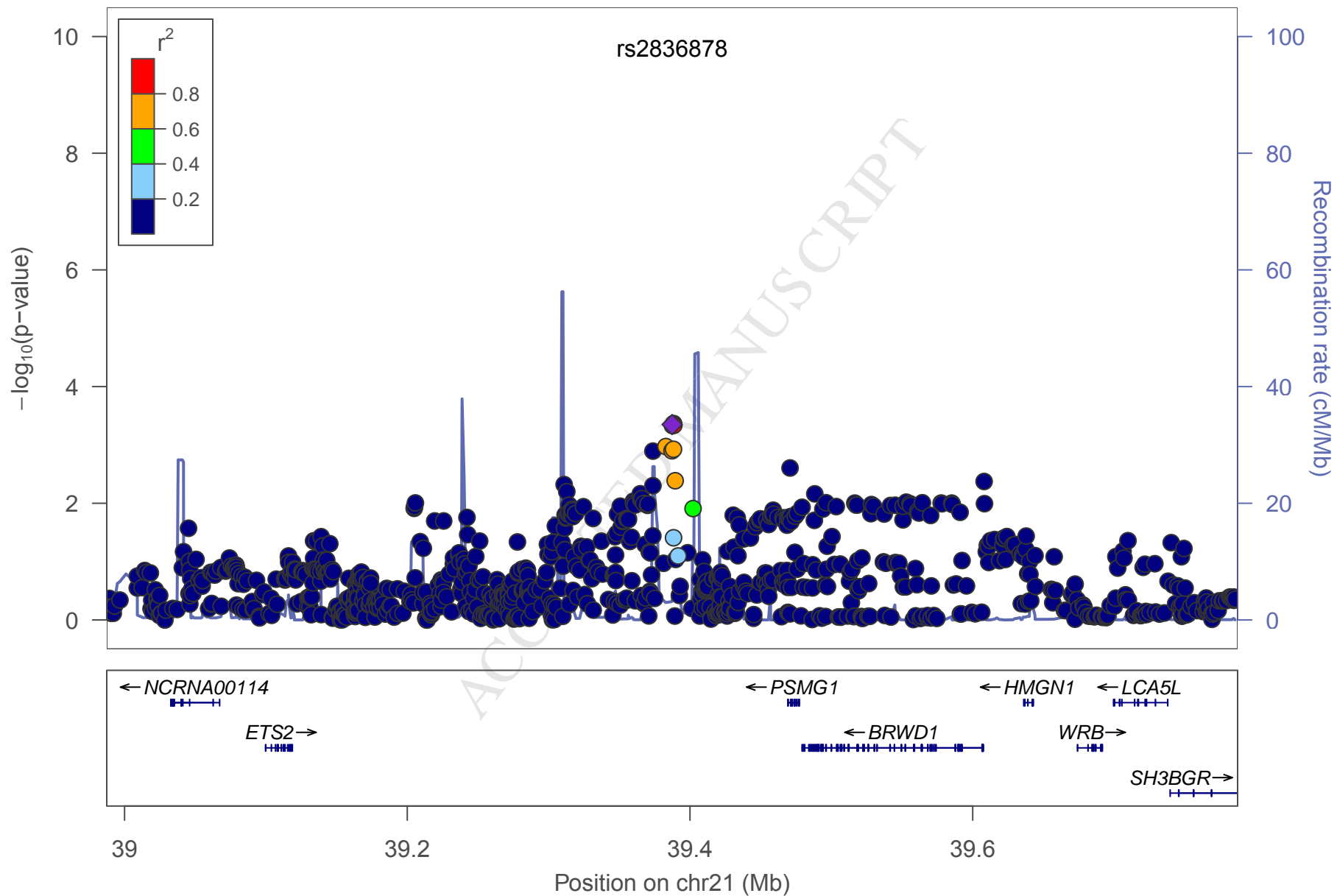
hilit range: 0 – 0 [0 – 0]

reference SNP: chr10:6109567

number of SNPs plotted: 788

max P.value: 5.17E–7 [chr10:6119852]

min P.value: 9.96E–1 [chr10:6000215]



date: Tue Jun 24 06:43:59 2014

build: hg18

display range: chr21:38987404–39787404 [38987404–39787404]

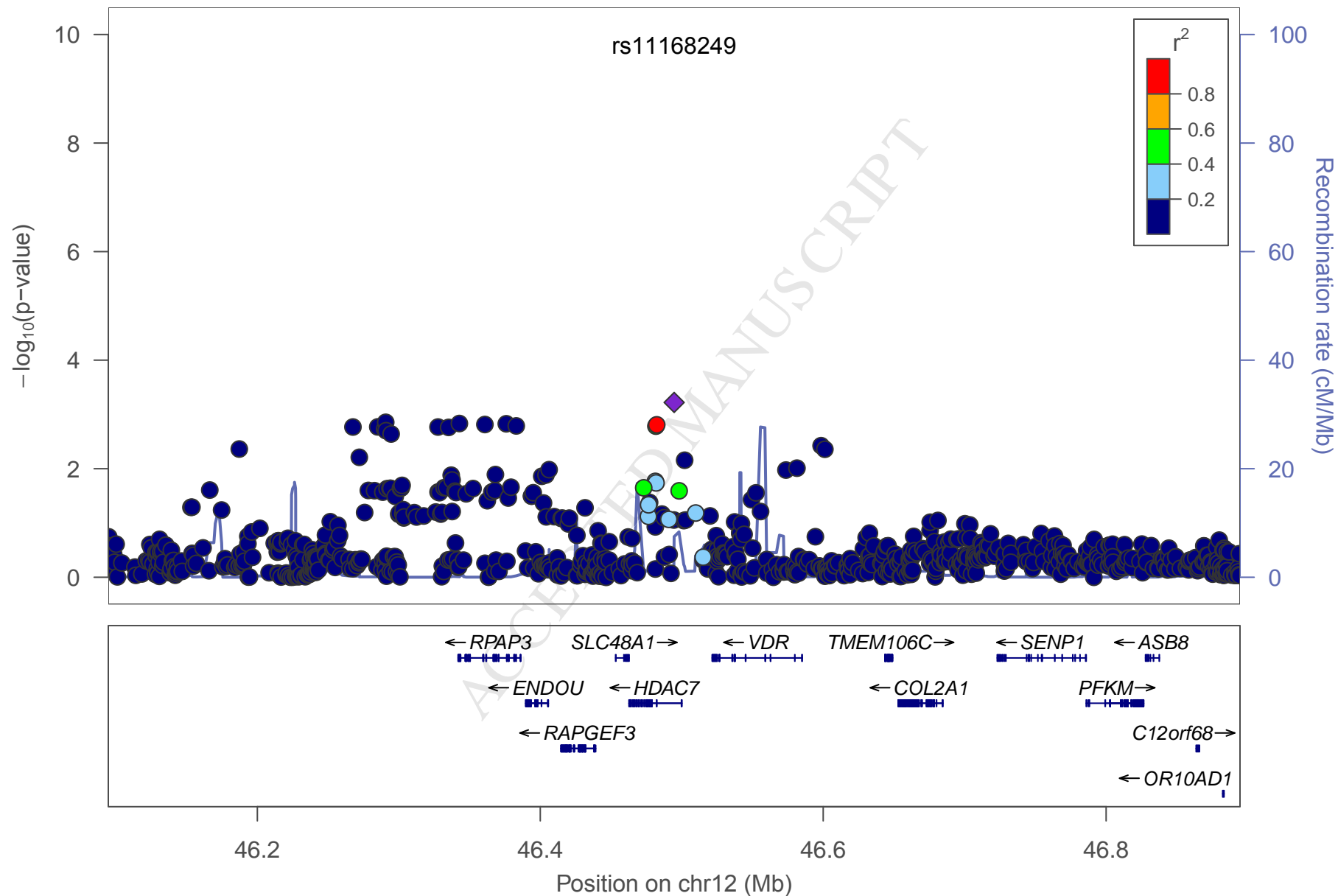
hilit range: 0 – 0 [0 – 0]

reference SNP: chr21:39387404

number of SNPs plotted: 885

max P.value: 4.31E–4 [chr21:39388169]

min P.value: 9.97E–1 [chr21:39213972]



date: Tue Jun 24 06:45:10 2014

build: hg18

display range: chr12:46094635–46894635 [46094635–46894635]

hilit range: 0 – 0 [0 – 0]

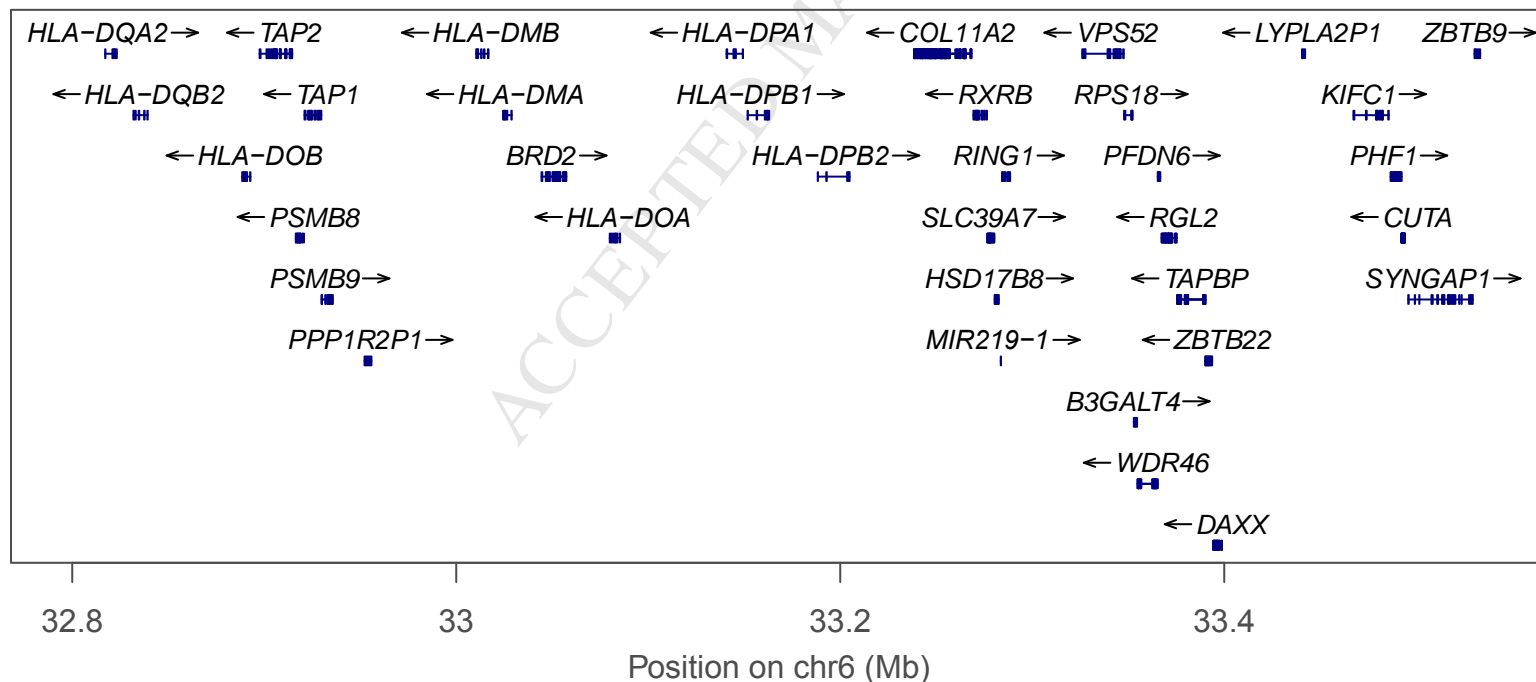
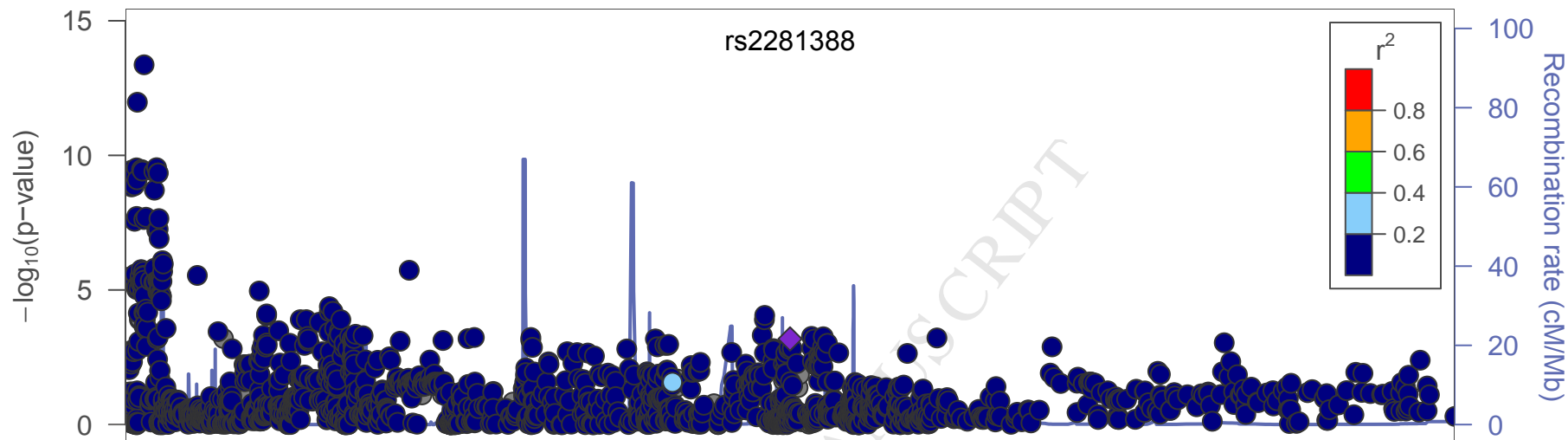
reference SNP: chr12:46494635

number of SNPs plotted: 795

max P.value: 6.01E–4 [chr12:46494635]

min P.value: 9.96E–1 [chr12:46446588]

Plotted SNPs



date: Tue Jun 24 06:47:02 2014

build: hg18

display range: chr6:32768096–33568096 [32768096–33568096]

hilite range: 0 – 0 [0 – 0]

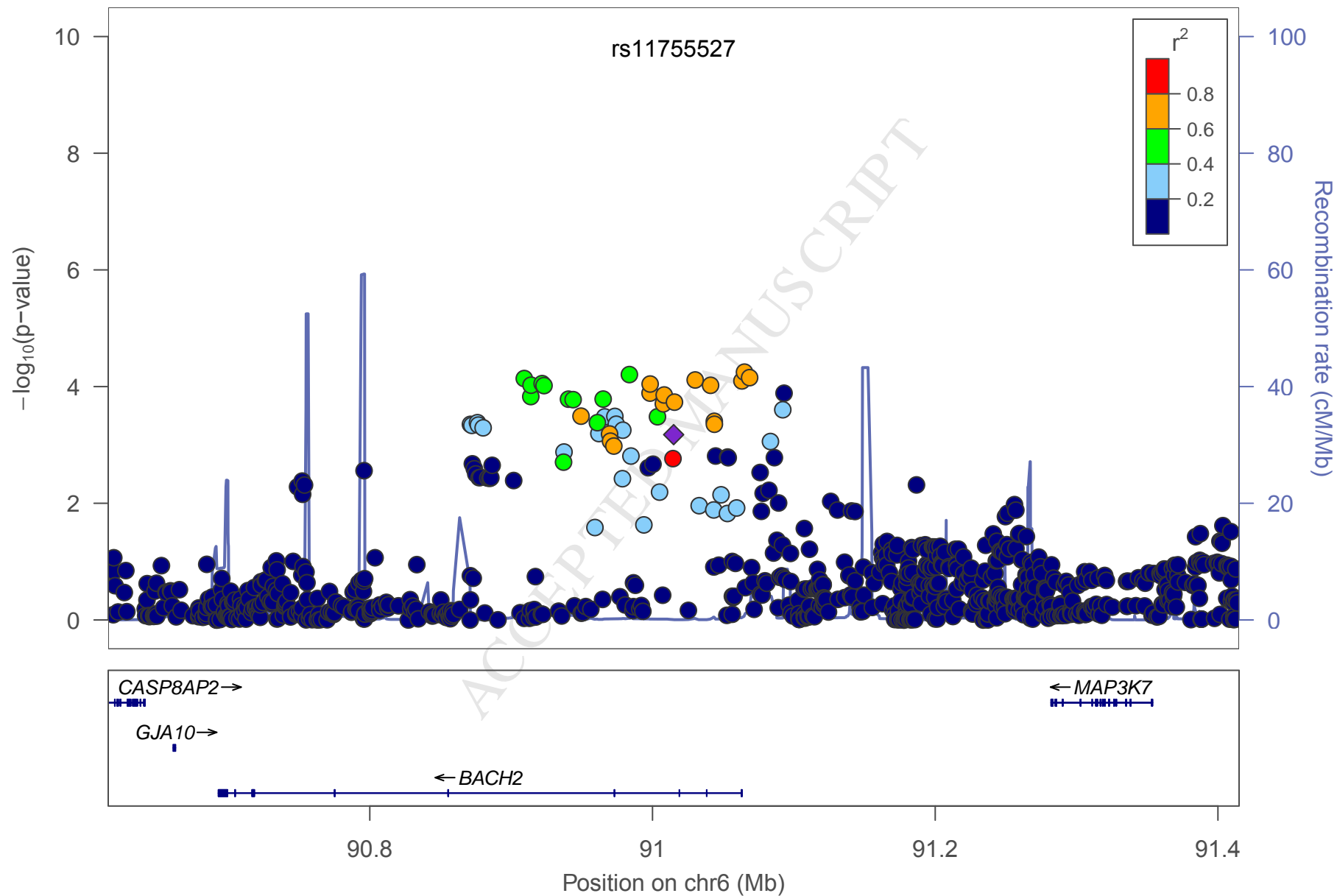
reference SNP: chr6:33168096

number of SNPs plotted: 1723

max P.value: $4.2\text{E}-14$ [chr6:32779226]

min P.value: $10\text{E}-1$ [chr6:32774800]

ACCEPTED MANUSCRIPT



date: Tue Jun 24 06:48:44 2014

build: hg18

display range: chr6:90614952–91414952 [90614952–91414952]

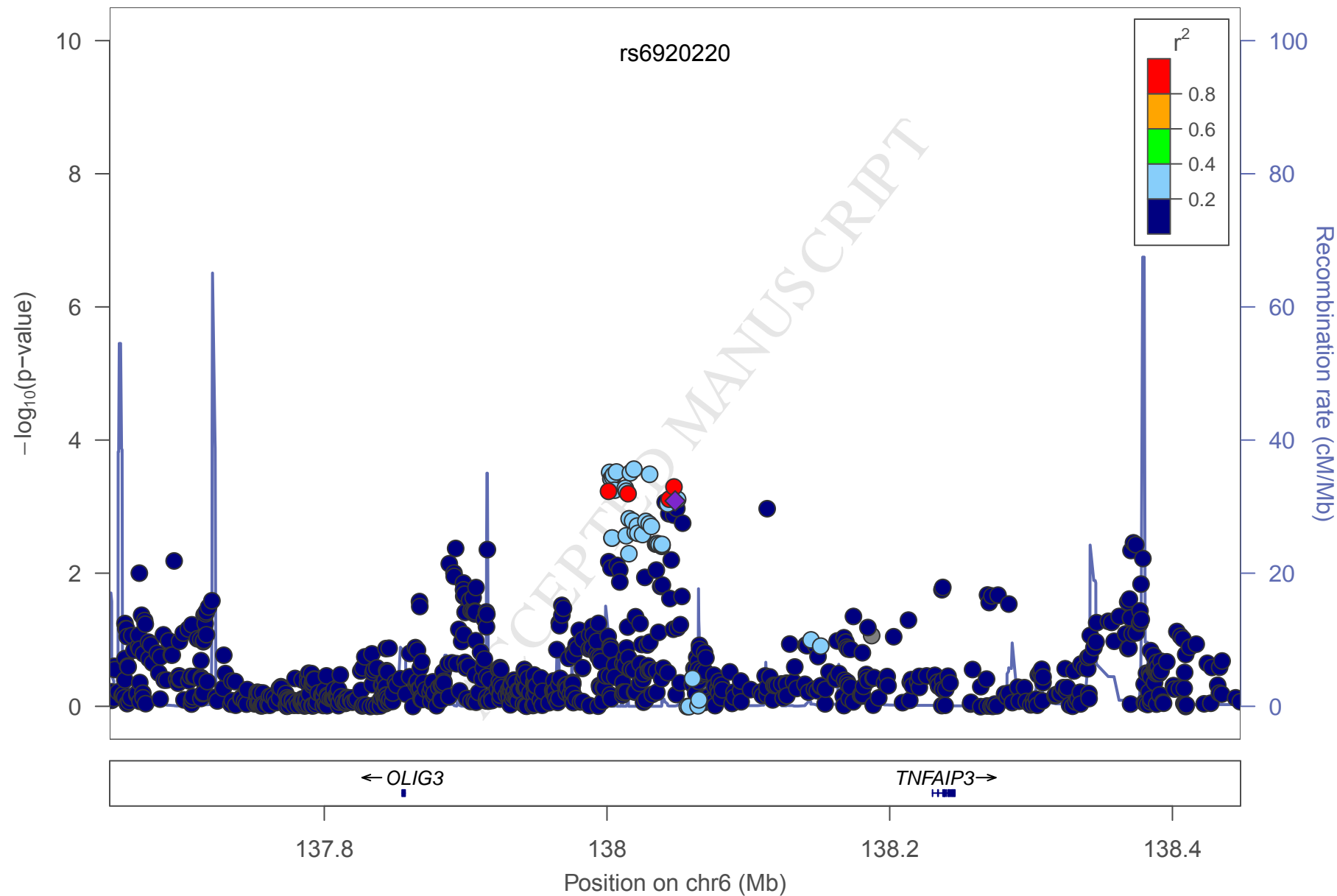
hilit range: 0 – 0 [0 – 0]

reference SNP: chr6:91014952

number of SNPs plotted: 805

max P.value: 5.61E–5 [chr6:91064748]

min P.value: 9.99E–1 [chr6:90691633]



date: Tue Jun 24 06:50:52 2014

build: hg18

display range: chr6:137648197–138448197 [137648197–138448197]

hilit range: 0 – 0 [0 – 0]

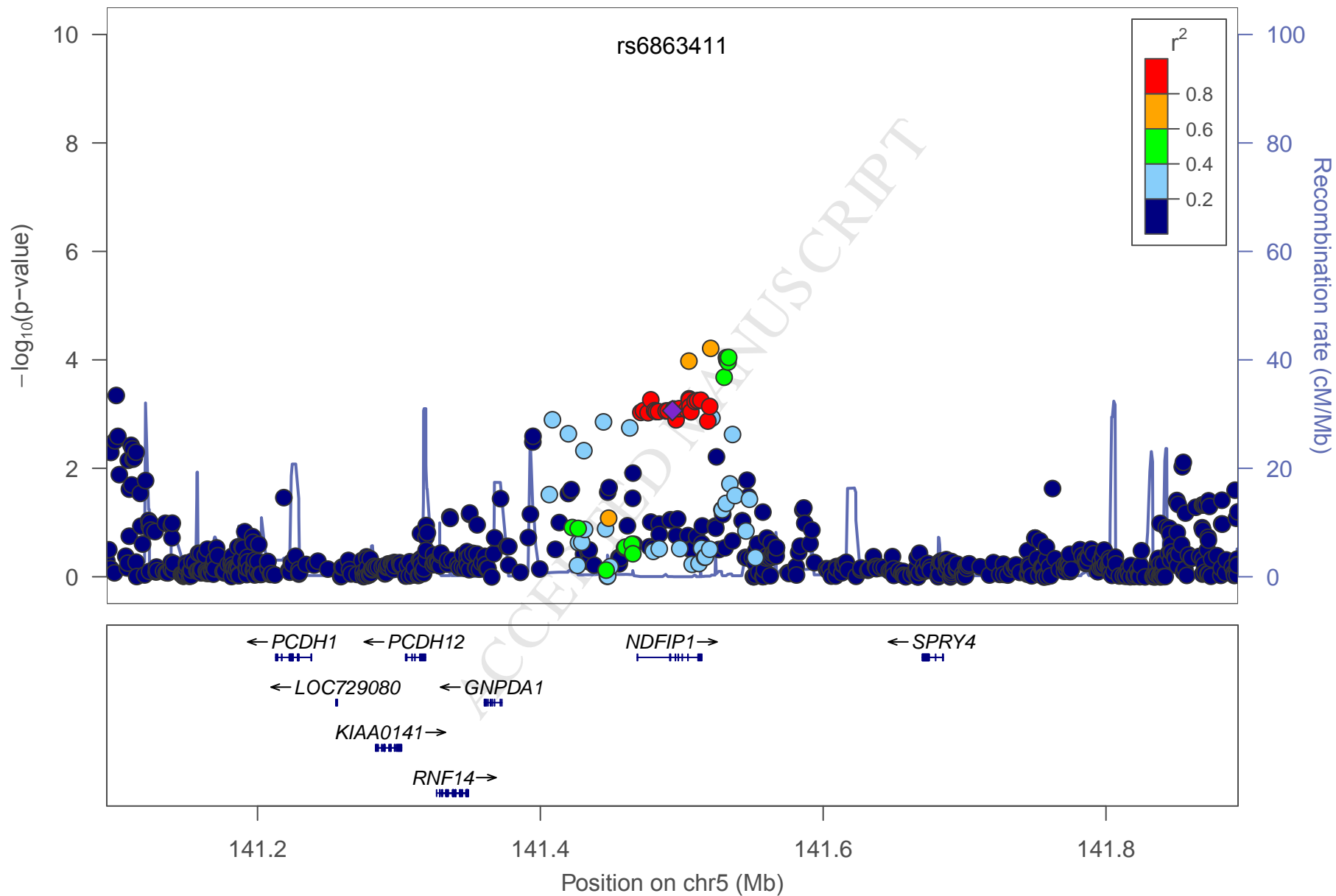
reference SNP: chr6:138048197

number of SNPs plotted: 864

max P.value: 2.7E–4 [chr6:138018860]

min P.value: 10E–1 [chr6:138057818]

ACCEPTED MANUSCRIPT



date: Tue Jun 24 07:22:37 2014

build: hg18

display range: chr5:141093388–141893388 [141093388–141893388]

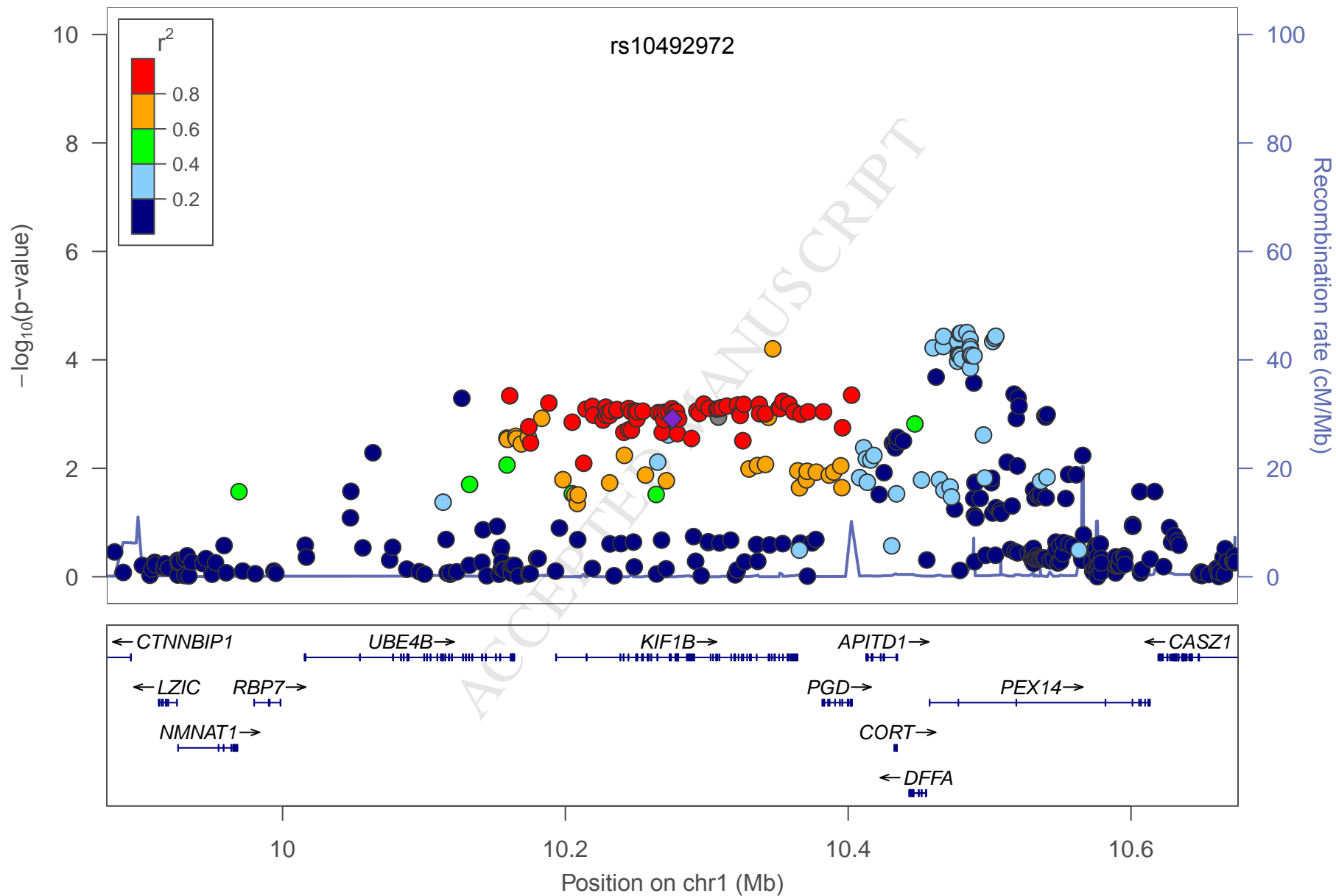
hilit range: 0 – 0 [0 – 0]

reference SNP: chr5:141493388

number of SNPs plotted: 716

max P.value: 6.06E–5 [chr5:141520201]

min P.value: 10E–1 [chr5:141756052]



date: Tue Jun 24 07:30:17 2014

build: hg18

display range: chr1:9875699–10675699 [9875699–10675699]

hilit range: 0 – 0 [0 – 0]

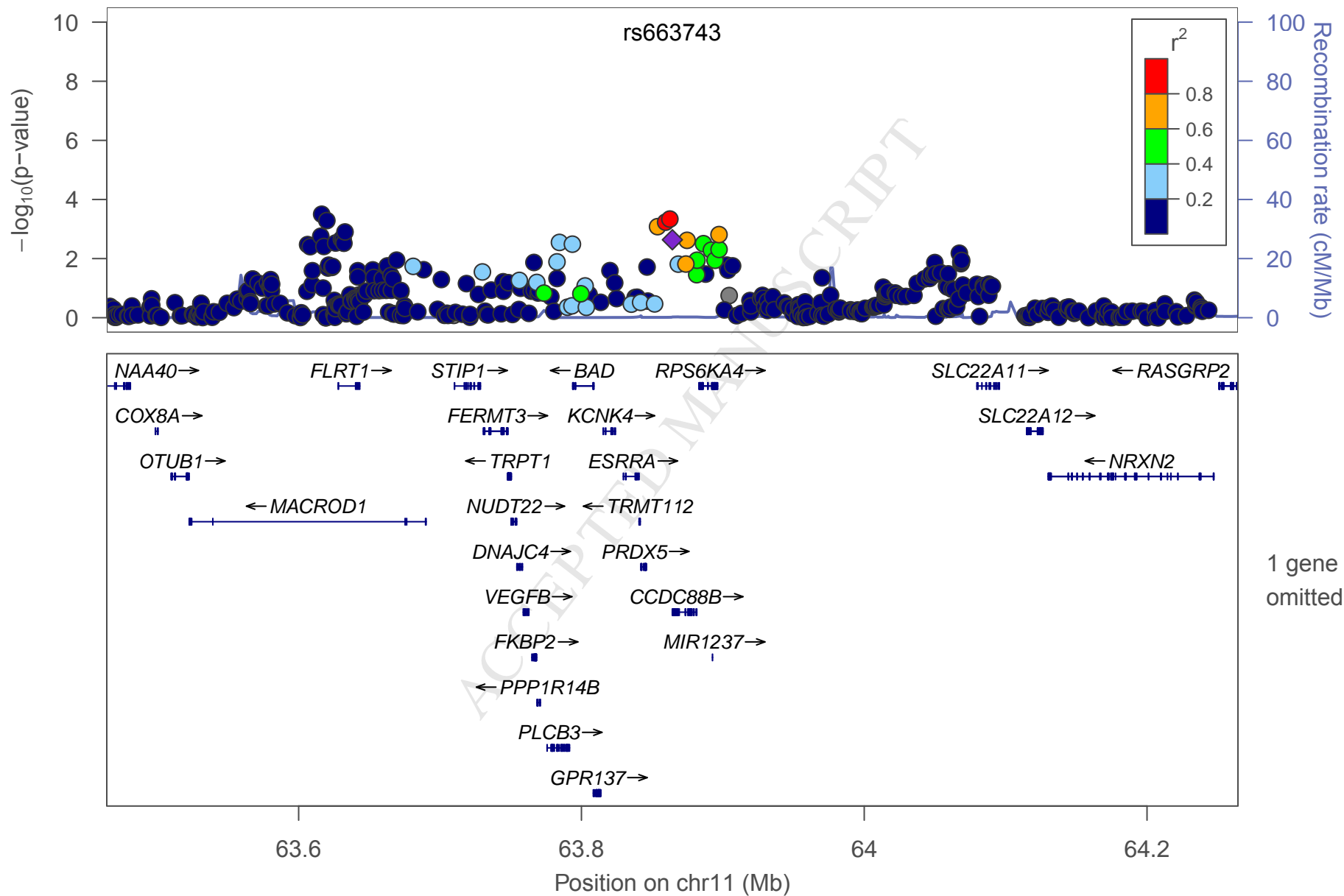
reference SNP: chr1:10275699

number of SNPs plotted: 391

max P.value: 3.13E–5 [chr1:10483869]

min P.value: 9.91E–1 [chr1:10576209]

ACCEPTED MANUSCRIPT



date: Tue Jun 24 07:33:32 2014

build: hg18

display range: chr11:63464311–64264311 [63464311–64264311]

hilit range: 0 – 0 [0 – 0]

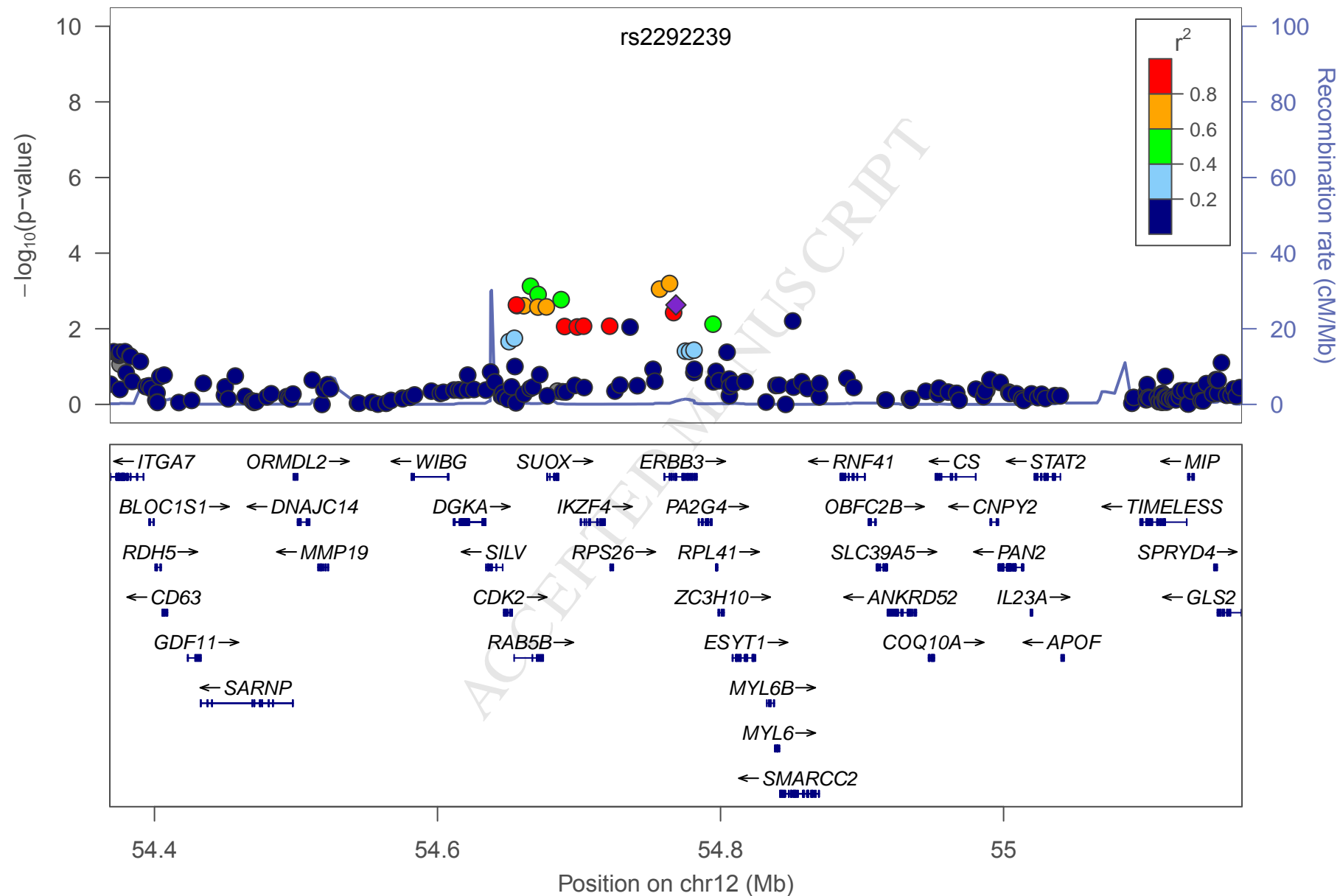
reference SNP: chr11:63864311

number of SNPs plotted: 387

max P.value: 3.13E–4 [chr11:63616327]

min P.value: 10E–1 [chr11:64207857]

omitted Genes: C11orf20



date: Tue Jun 24 07:37:53 2014

build: hg18

display range: chr12:54368447–55168447 [54368447–55168447]

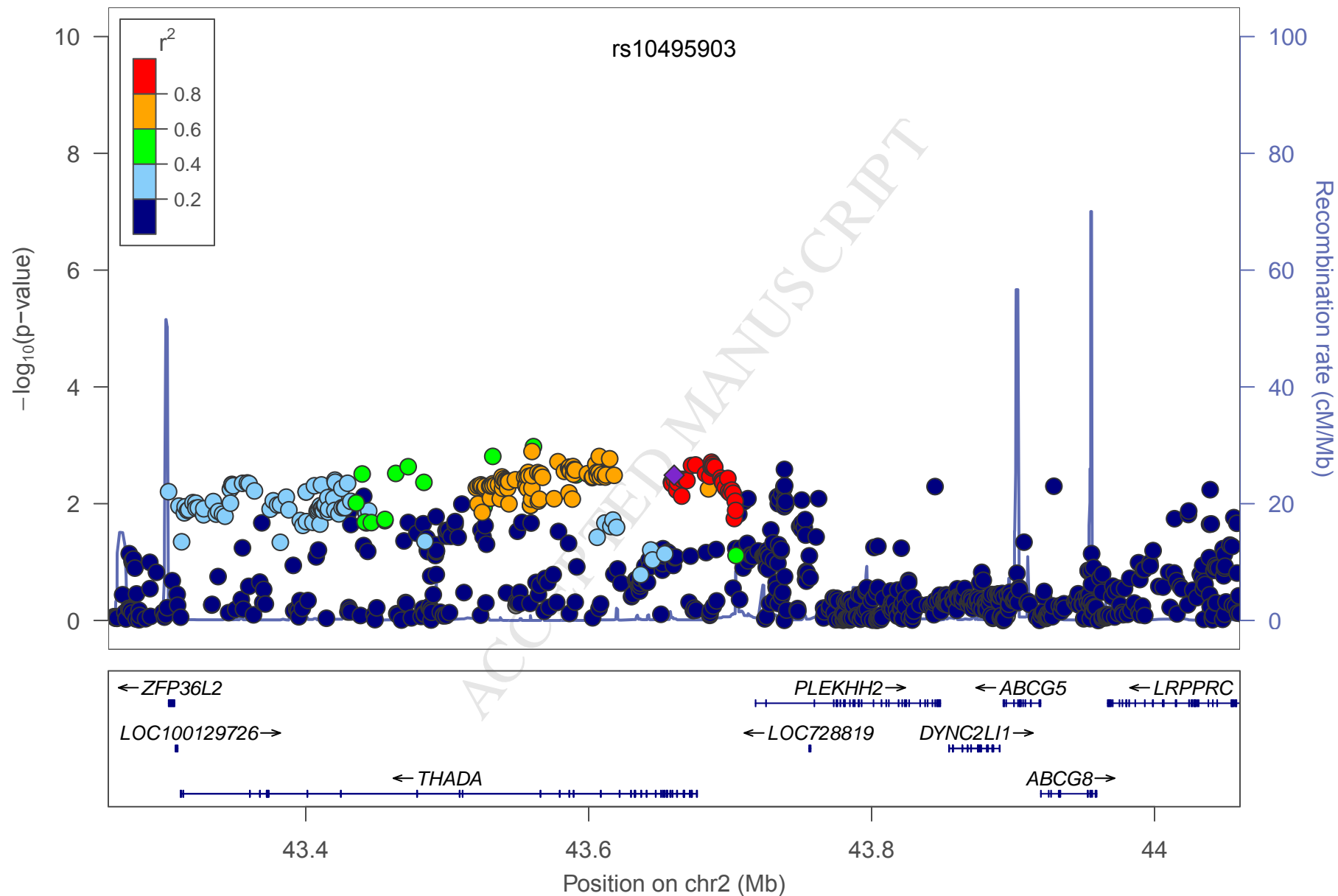
hilit range: 0 – 0 [0 – 0]

reference SNP: chr12:54768447

number of SNPs plotted: 217

max P.value: 6.27E–4 [chr12:54763961]

min P.value: 9.91E–1 [chr12:54518443]



date: Tue Jun 24 07:41:08 2014

build: hg18

display range: chr2:43260422–44060422 [43260422–44060422]

hilit range: 0 – 0 [0 – 0]

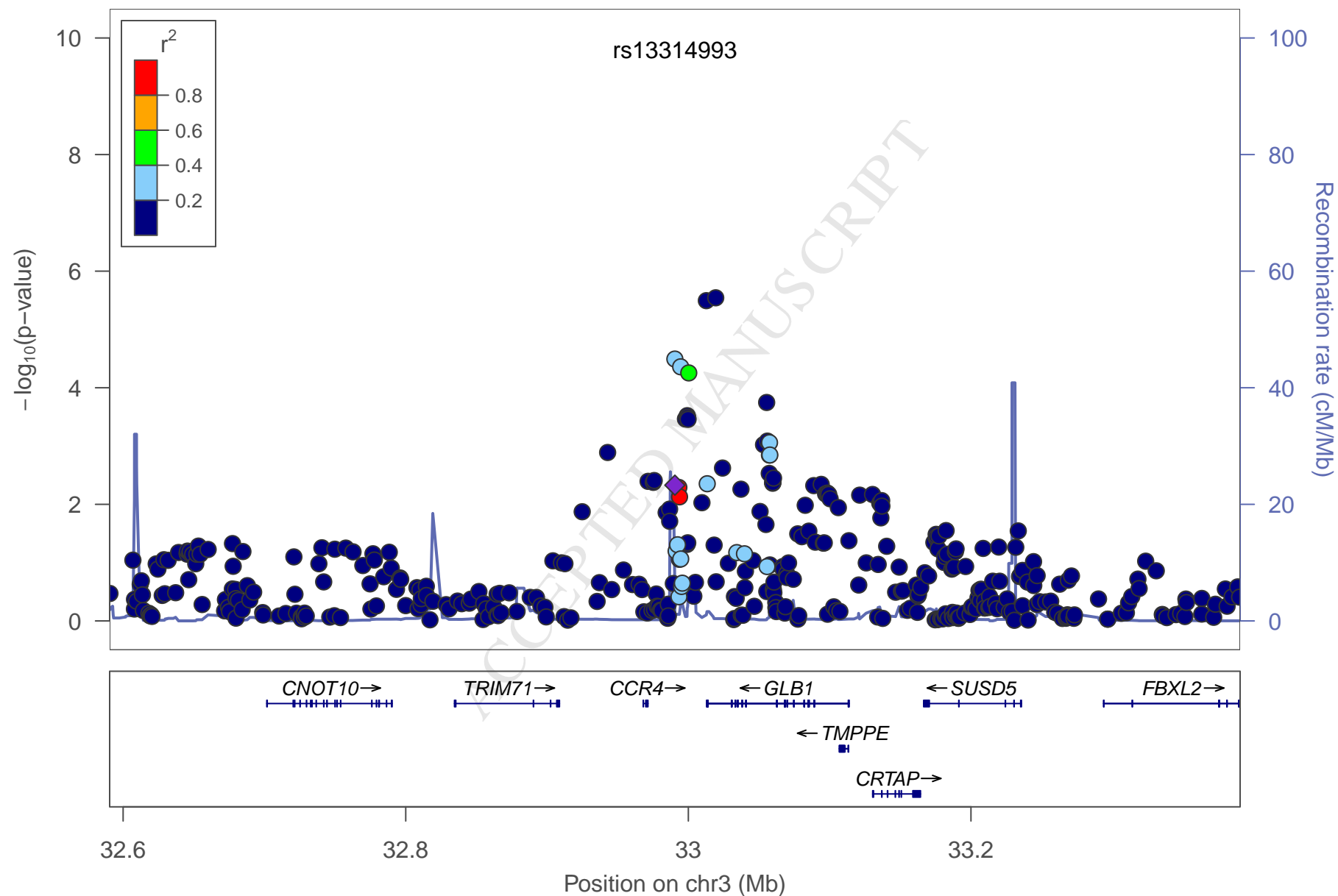
reference SNP: chr2:43660422

number of SNPs plotted: 856

max P.value: 1.05E–3 [chr2:43560889]

min P.value: 9.97E–1 [chr2:43892797]

ACCEPTED MANUSCRIPT



date: Tue Jun 24 07:53:54 2014

build: hg18

display range: chr3:32590473–33390473 [32590473–33390473]

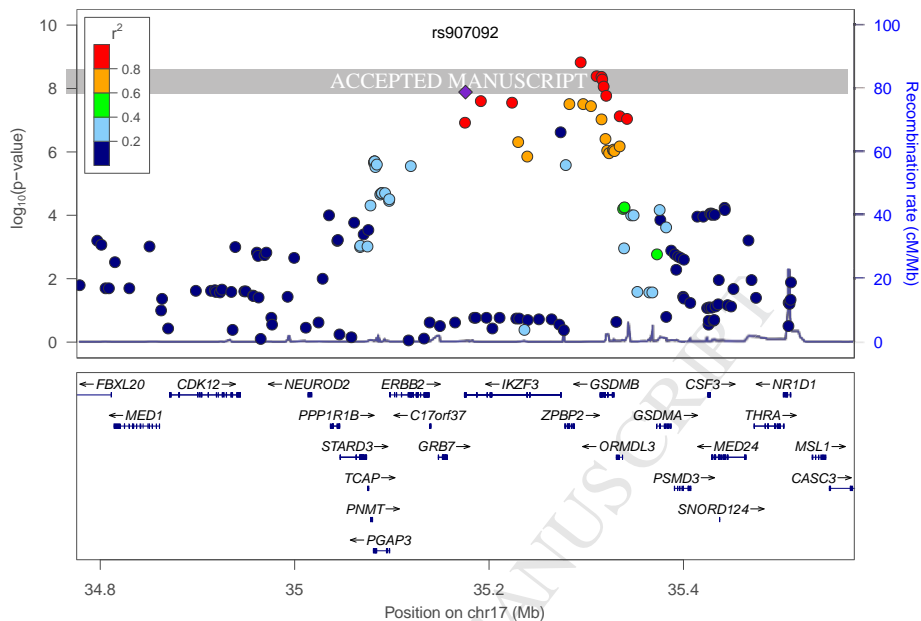
hilit range: 0 – 0 [0 – 0]

reference SNP: chr3:32990473

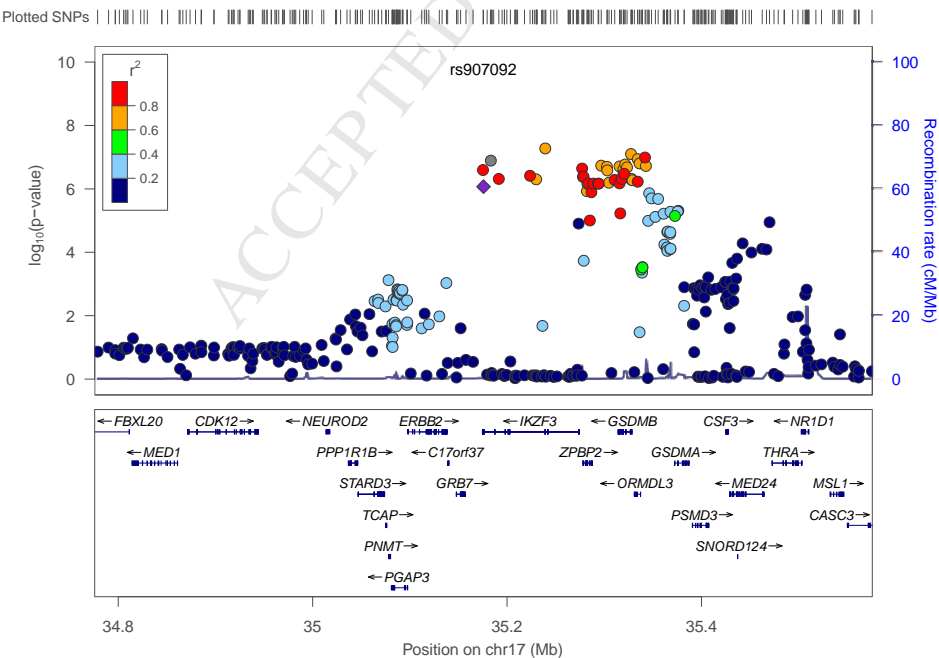
number of SNPs plotted: 391

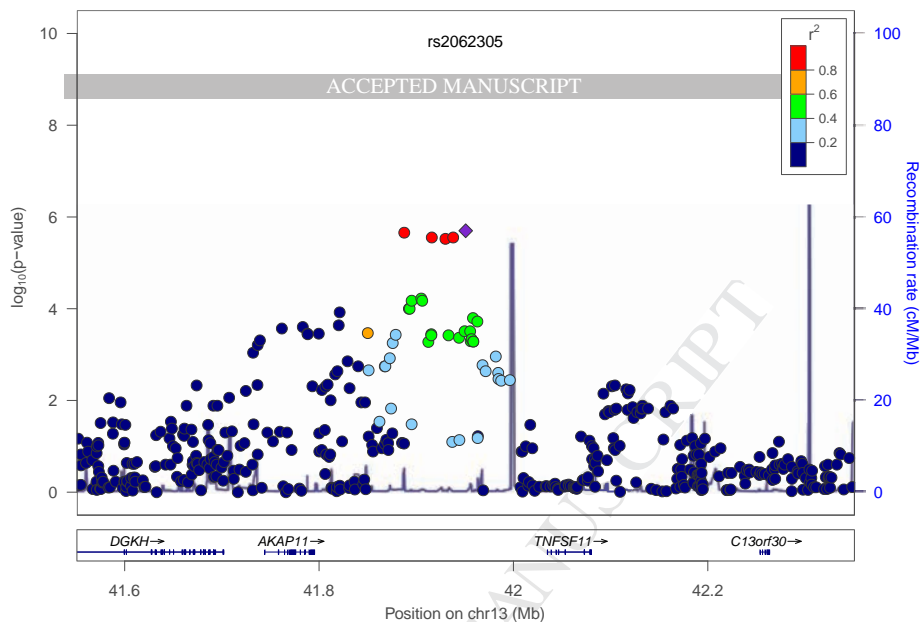
max P.value: 2.86E–6 [chr3:33019343]

min P.value: 9.74E–1 [chr3:33230596]

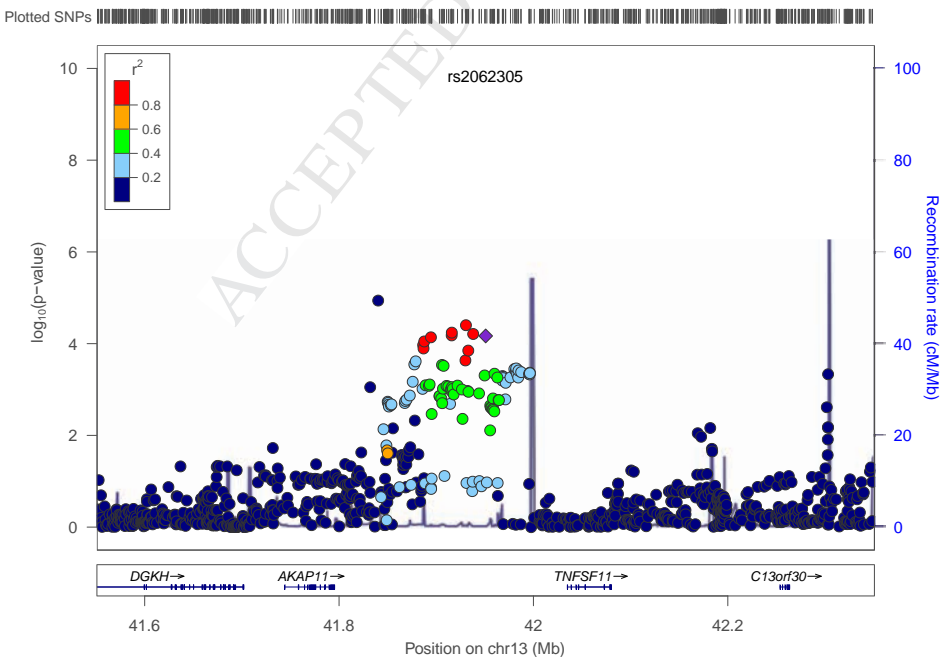


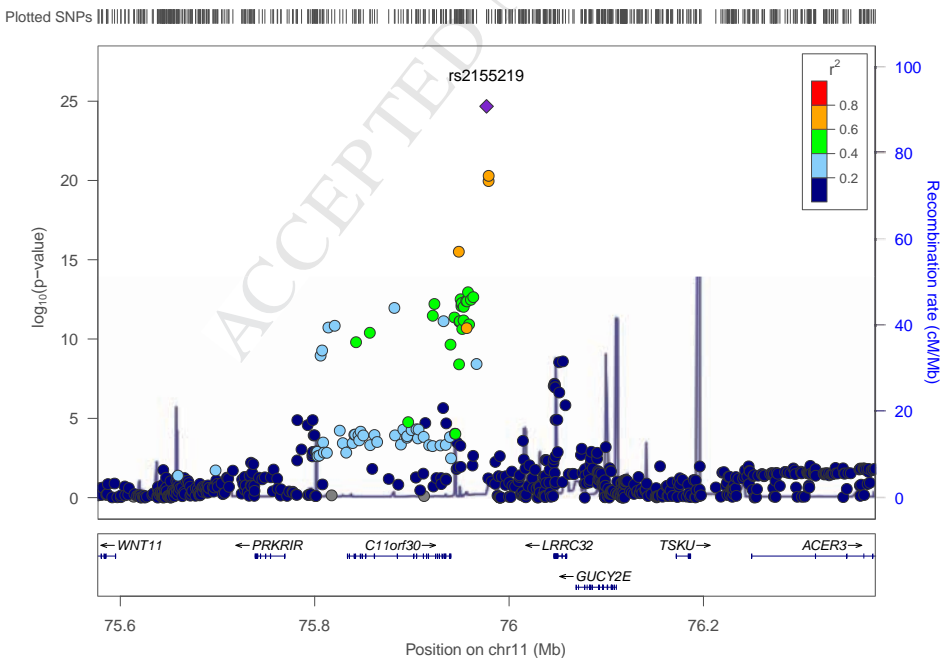
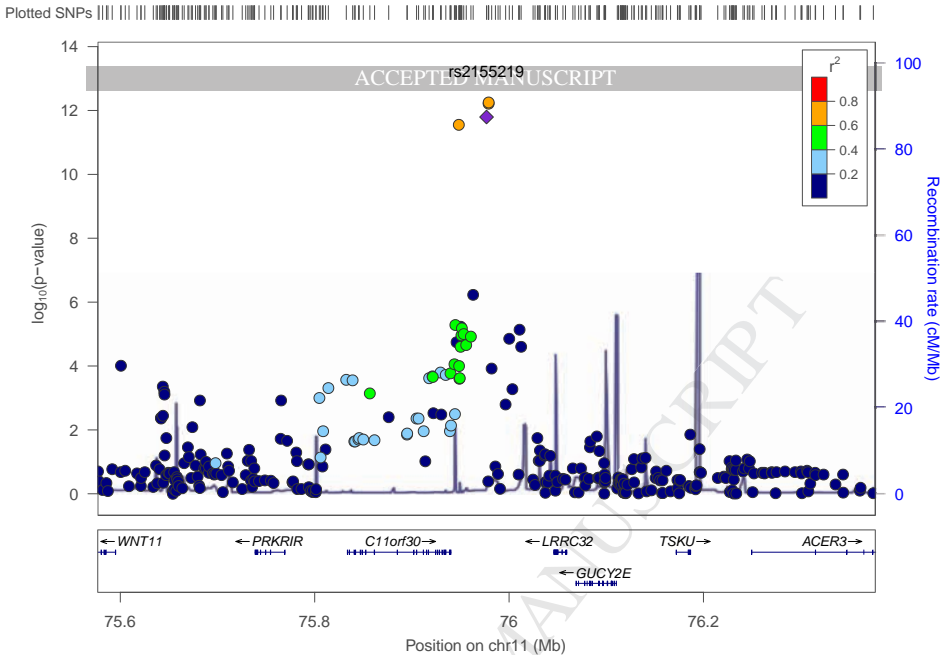
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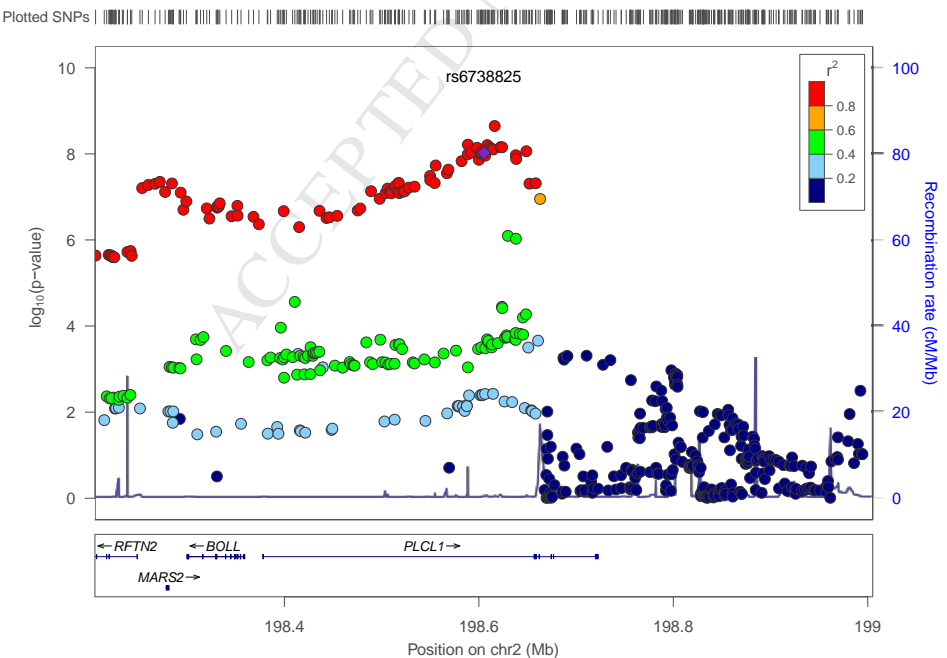
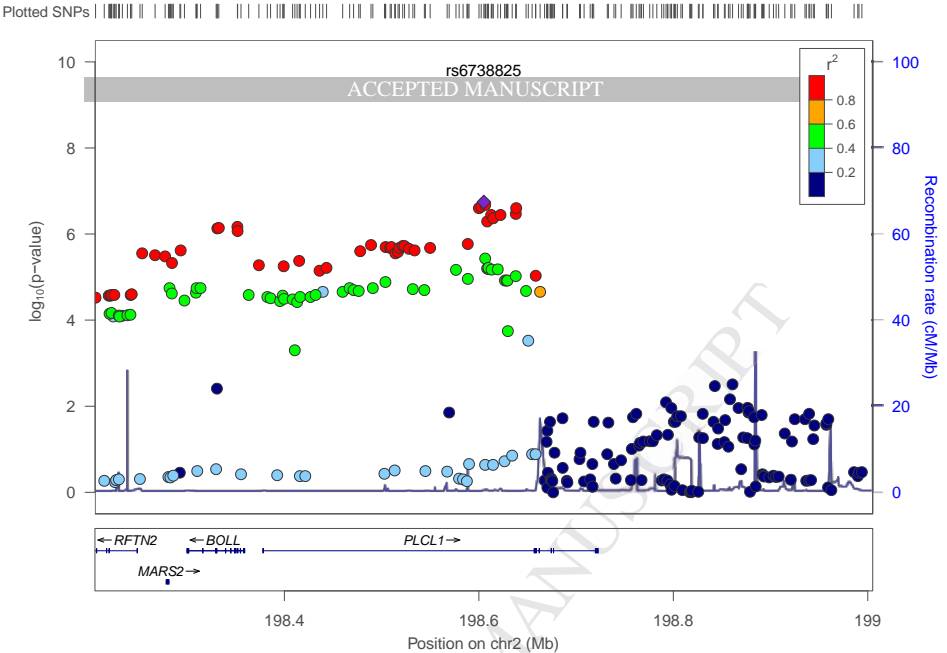


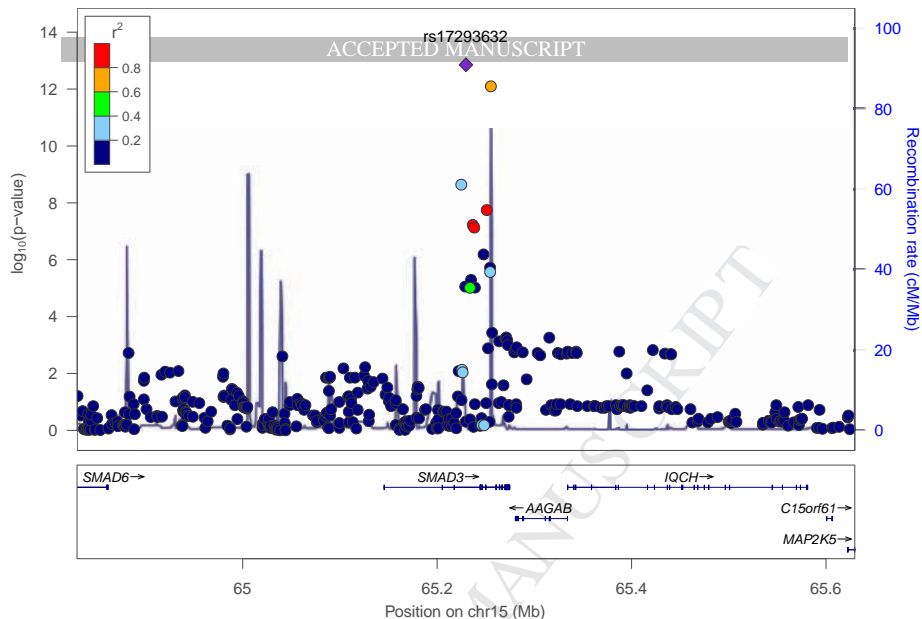


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Plotted SNPs

